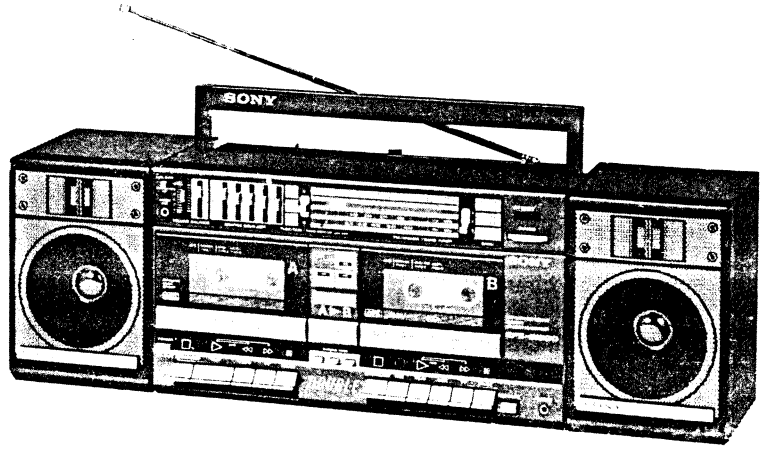
CFS-W600

SERVICE MANUAL

712755
E Model



SPECIFICATIONS

Radio section

Frequency range
FM 87.6–108 MHz
MW 530–1,605 MHz (566–187 m)
SW_1 5.95–6.20 MHz (49 m)
SW_2 9.50–9.80 MHz (31 m)
SW_3 11.70–12.00 MHz (25 m)
SW_4 15.10–15.50 MHz (19 m)
SW_5 17.60–18.00 MHz (16 m)

Antennas
FM/SW: Telescopic antenna
MW:Built-in ferrite-bar antenna

Tape recorder section and general

Recording system
4-track 2-channel stereo

Fast winding time
Approx. 1 min 30 sec. with Sony cassette HF-60

Frequency response
TYPE I (Normal) cassette: 60 Hz–10,000 Hz
TYPE IV (Metal) cassette: 60 Hz–14,000 Hz

Graphic equalizer
Boost/cut range: ±10 dB
Center frequencies: 100 Hz, 400 Hz, 1 kHz, 4 kHz, 12 kHz,

Speakers
Two-way: Woofer 10 cm (4 inches) dia. × 2
Tweeter 3 cm (1⅛ inches) dia. × 2

Power output
5 W+5 W (at 10% harmonic distortion) at dc operation
4 W+4 W (at 10% harmonic distortion) at ac operation

Tape Transport Mechanism Type	DECK A	MF-W600PB-75
	DECK B	MF-W600RP-75

Inputs
Mixing microphone input jack (minijack)
sensitivity 1.4 mV (–55 dB)
for low impedance microphone
Line input jacks (stereo minijack)
sensitivity 0.3 V (–8.5 dB)
input impedance 47 kilohms

Outputs
Headphones jack (stereo minijack)
for 8 to 300-ohm impedance headphones
Speaker terminals
for 6-ohm impedance speaker

Power requirements
110–120 V or 220–240 V ac adjustable, 50/60 Hz
9 V dc, six batteries IEC designation R20 (size D)

Power consumption
20 W at ac operation

Battery life

Batteries	FM recording	Tape playback
Sony New Super SUM-1(NS)	6	4
Sony Eveready AM1 alkaline	10	6

(hours)

Dimensions
Approx. 571 × 179.5 × 195 mm (w/h/d) (22½ × 7⅛ × 7¾ inches) incl. projecting parts and controls

Weight
Approx. 6 kg (13 lb 4 oz) not incl. batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

FM/MW/SW 1-5 STEREO CASSETTE CORDER

SONY®

MICROFILM

TC

CFS-W600

SERVICE MANUAL

US Model
Canadian Model

No. 1
February, 1987

SUPPLEMENT

Graphic EQ Board Change

File the supplement with the service manual.

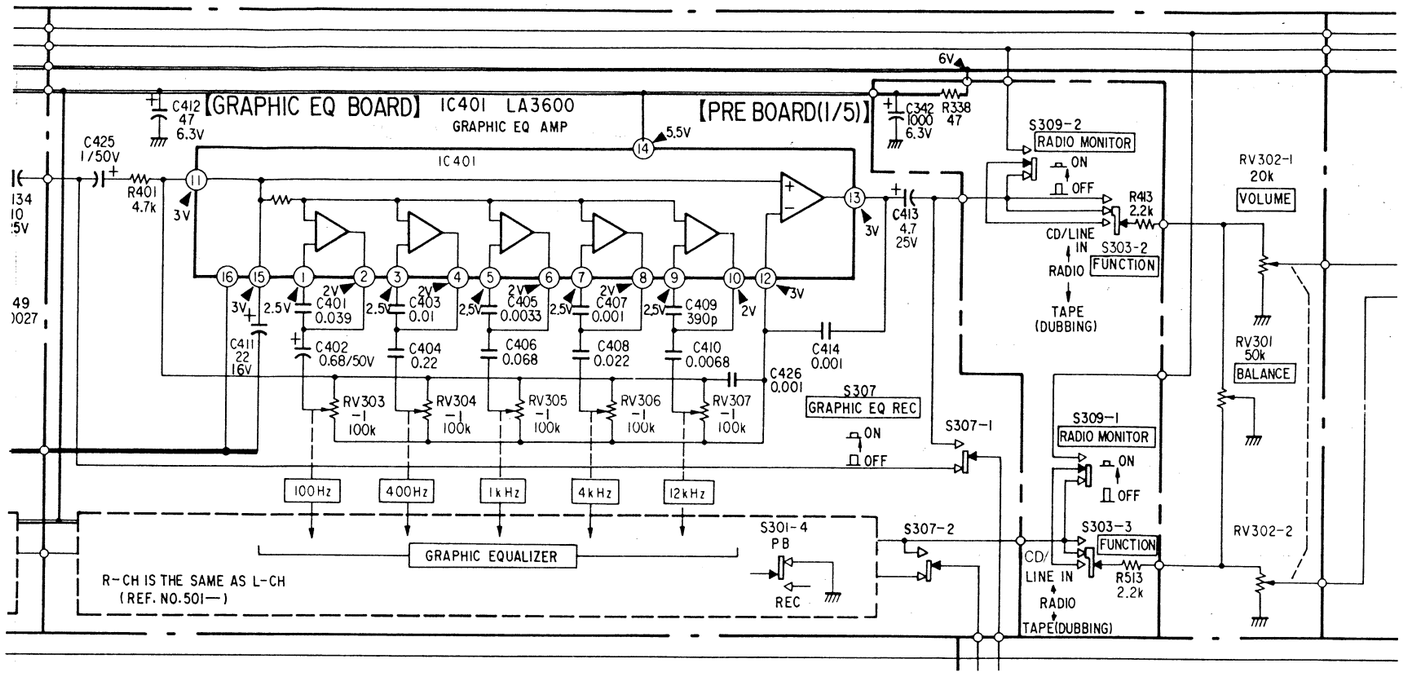
Pages 41 and 44: PARTS LIST

Ref. No.	Former	New
C403	1-161-052-00 CERAMIC 0.012MF 10% 50V	1-162-306-31 CERAMIC 0.01MF 30% 16V
C404	1-136-169-00 FILM 0.22MF 5% 50V	1-162-562-11 CERAMIC 0.22MF 16V
C405	1-161-046-00 CERAMIC 0.0039MF 10% 50V	1-162-303-31 CERAMIC 0.0033MF 30% 16V
C407	1-161-040-00 CERAMIC 0.0012MF 10% 50V	1-162-294-31 CERAMIC 0.001MF 10% 50V
VR301	1-230-671-11 RES, VAR, SLIDE 100K(BALANCE)	1-237-080-11 RES, VAR, SLIDE 50K/50K(BALANCE)

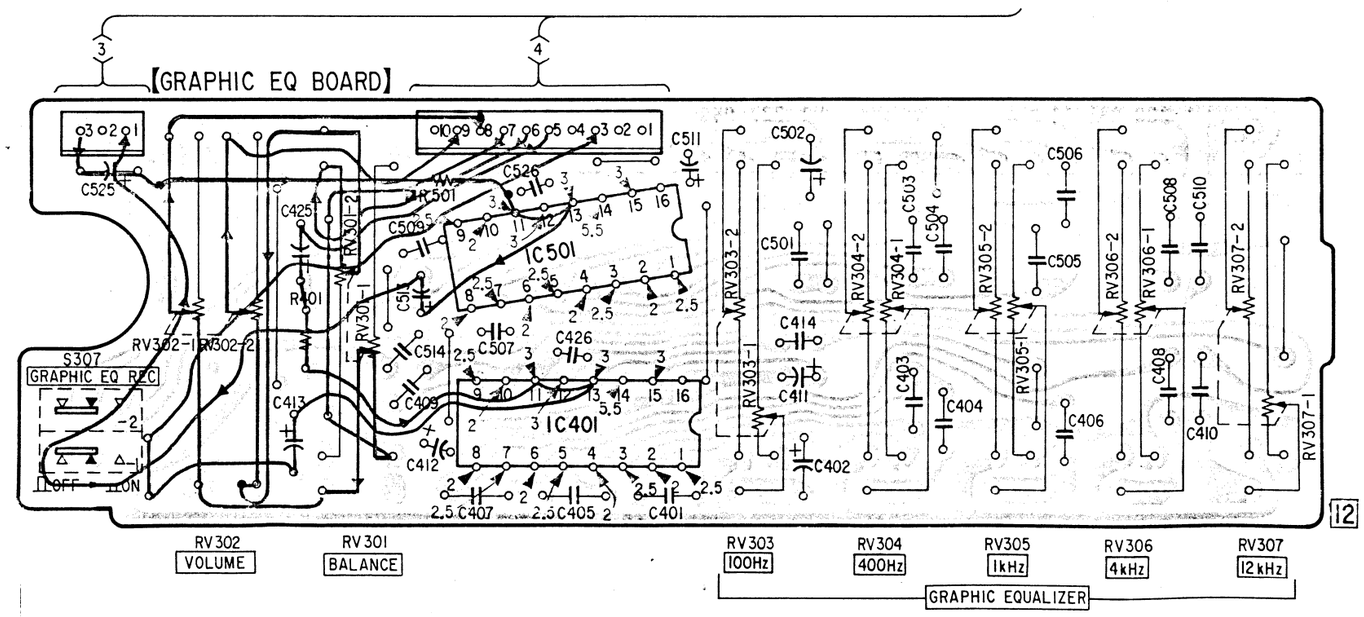
FM/AM STEREO
CASSETTE-CORDER

SONY®

Pages 28, 29: SCHEMATIC DIAGRAM



Pages 22, 23: MOUNTING DIAGRAM



9-951-616-83

Sony Corporation
Audio Group

English
87B0247-1
Printed in Japan
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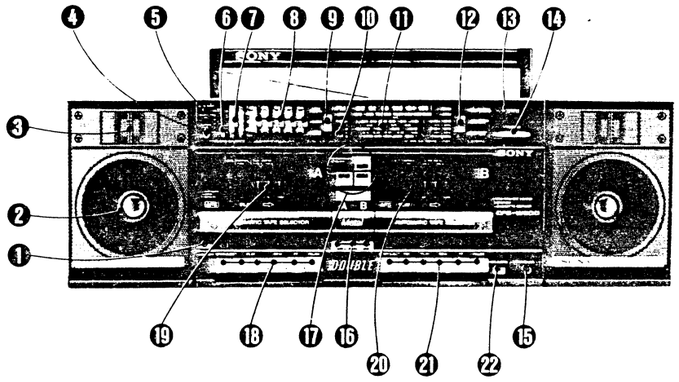
FUNCTION OF CONTROLS



Tuner section

❶ POWER switch
Press to turn on the power. To turn it off, press it again.

❷ Woofer

❸ Tweeter

❹ MIX MIC (mixing microphone) jack (minijack)
Connect an external microphone for mixing the sound with a taped program, radio program or equipment connected to the CD/LINE IN jack.

❺ GRAPHIC EQ REC (graphic equalizer recording) button
Depress this button to record the sound with the GRAPHIC EQUALIZER controls. Press it again to release it (⎍ OFF).

❻ VOLUME control
Slide upwards for more volume.

❼ BALANCE control
This controls the balance of the left and right channel output level. Normally set the control to the center position.

❽ GRAPHIC EQUALIZER control
Slide downwards or upwards to equalize the reproduced sound. When the equalizer is not used, set the controls to 0 (center position). Recording the sound adjusted with the GRAPHIC EQUALIZER controls is also possible.

Frequency coverage of each equalizer control
100 Hz: Use this control to boost or cut the bass.
400 Hz: Use this control to adjust the middle frequency range such as the human voice and the middle frequencies of instrumental music.
1 kHz: Use this control to provide more presence of vocals.
4 kHz: Use this control to adjust the brightness of sound.
12 kHz: This control effects general treble. Slide downward to reduce high frequency noise, such as tape hiss.

❾ FUNCTION selector
Set the selector as required.
CD/LINE IN: For recording or listening to the sound source connected to the CD/LINE IN jack on the rear or for recording with an external microphone connected to the MIX MIC jack.
RADIO: For listening to or recording radio programs.
TAPE: For playing back the tape or for dubbing.

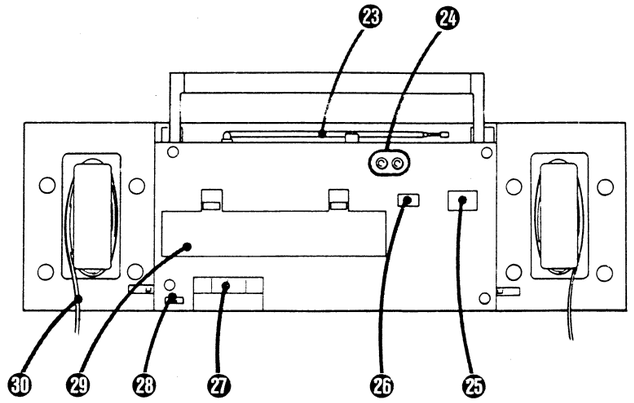
❿ RADIO MONITOR button
Depress this button to listen to the radio program during tape dubbing (⎍ ON). Press it again to release it (⎍ OFF).

⓫ Frequency scale

⓬ BAND selector
Select the desired band, FM, MW or SW.

⓭ SW band selector
Select the desired SW band.

⓮ TUNING knob
Turn the tuning knob to the left for a lower frequency and to the right for a higher one.



⓯ Headphones jack
Accepts any headphones with a stereo miniplug. The headphone volume can be adjusted with the volume control.

⓰ DUBBING MODE buttons
Select the dubbing mode as required.
ONE SIDE NORM SPEED: Depress this button for one-side dubbing of the cassette at normal speed.
ONE SIDE HI-SPEED: For one-side dubbing at high speed.
BOTH SIDES HI-SPEED: For both-side dubbing at high speed.

⓱ INDICATOR BLOCK
FM STEREO: Lights when an FM stereo program of sufficient signal strength is tuned in.
OPERATION/BATTERY: Lights up when the set is in operation.
HI-SPEED/BOTH SIDES: Lights up while both sides of the cassette are being dubbed at high speed.

Cassette deck section

Deck A (For playback only)

⓲ Tape operation mode buttons of Deck A
■ **STOP/EJECT**
► **FWD (forward)**
◄◄ **REW (rewind)**
►► **FF (fast-forward)**
❚❚ **PAUSE:** Depress this button to stop the tape for a moment during playback. To restart, press it again.

⓳ Cassette holder A

Deck B (For recording and playback)

⓴ Cassette holder B

㉑ Tape operation mode buttons of Deck B
■ **STOP/EJECT**
● **REC (record):** Depress this button to record.
► **FWD (forward)**
◄◄ **REW (rewind)**
►► **FF (fast-forward)**
❚❚ **PAUSE**

㉒ REC MUTE (recording muting) button
Keep this button depressed to insert a blank space.

rear panel

㉓ Telescopic antenna
Used for FM or SW reception.

㉔ CD (compact disc)/LINE IN jacks (phono jacks)
Connect a turntable system with a built-in equalizer amplifier, a CD (compact disc) player or an amplifier for listening to or recording the sound from these equipments.

㉕ Voltage selector
If required, set the selector to 110–120 or 220–240 V.

㉖ AC IN (power input) socket
For connecting the supplied ac power cord.

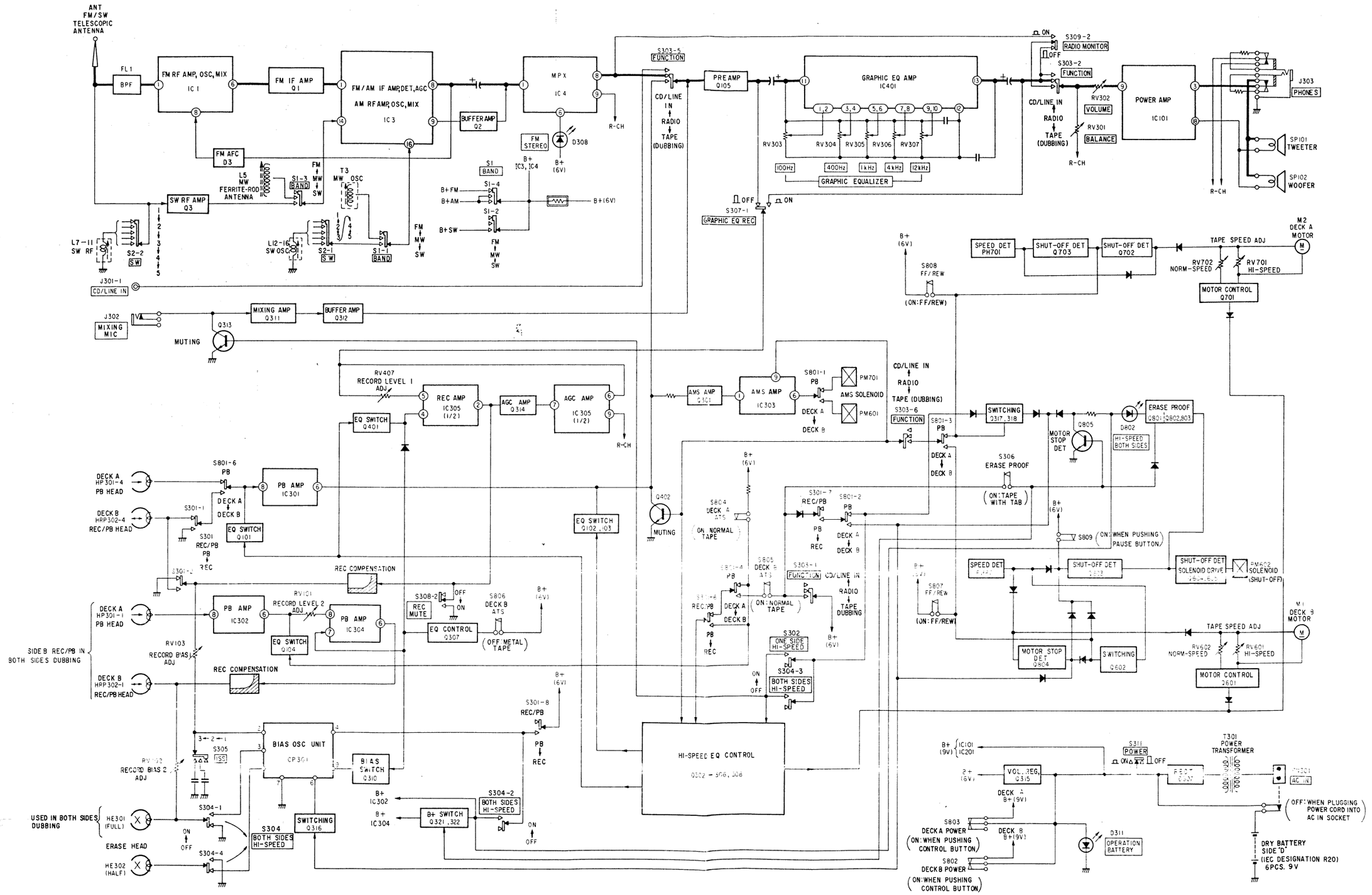
㉗ Speaker terminal
Connect the speaker system with the supplied speaker cords.

㉘ ISS (interference suppress switch)
Used for MW program recording.

㉙ Battery compartment

㉚ Speaker cord

SECTION 1
BLOCK DIAGRAM

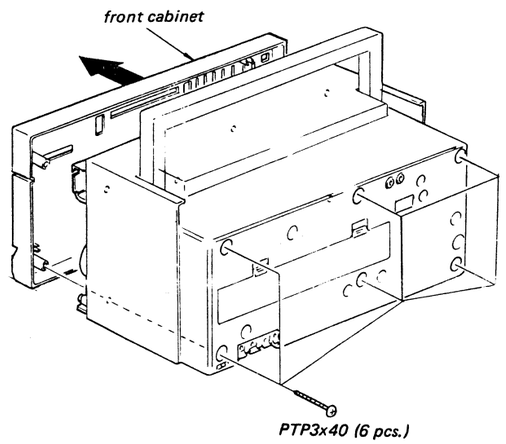


SECTION 2
DISASSEMBLY

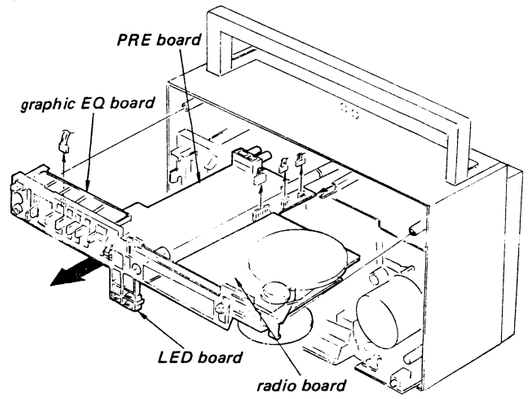
Note: Follow the disassembly procedure in the numerical order given.

2-1. REMOVAL

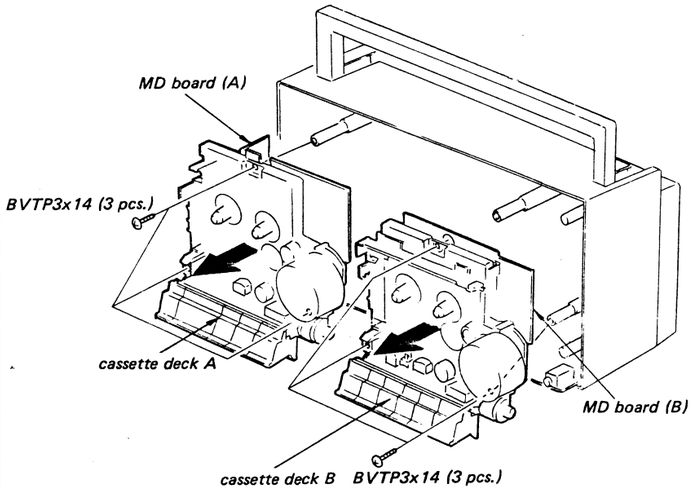
FRONT CABINET



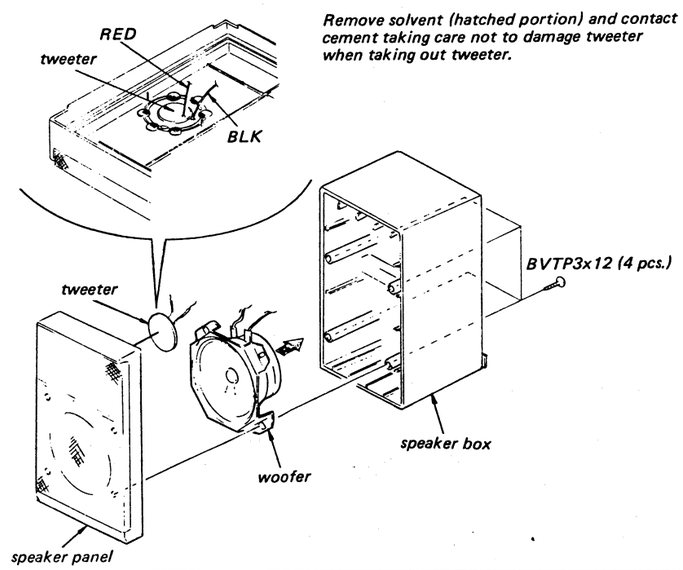
PRE, RADIO, GRAPHIC EQ AND LED BOARD



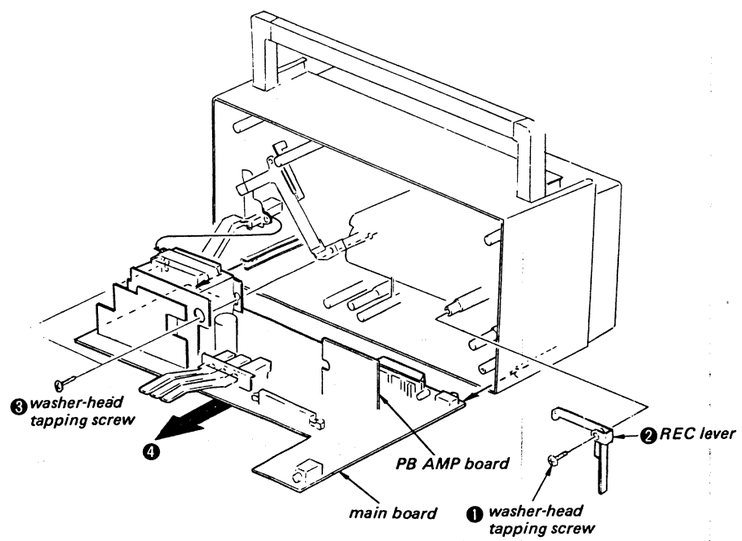
CASSETTE DECK



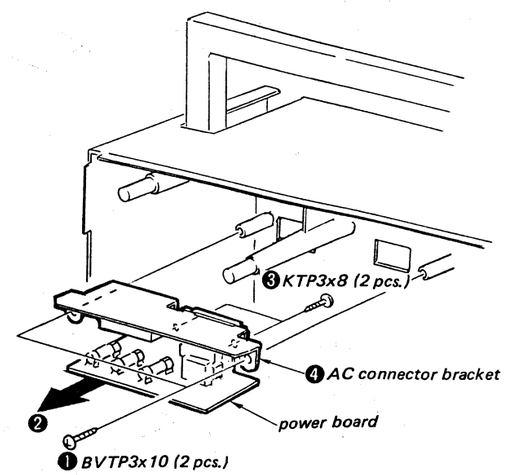
SPEAKER



MAIN AND PB AMP BOARD

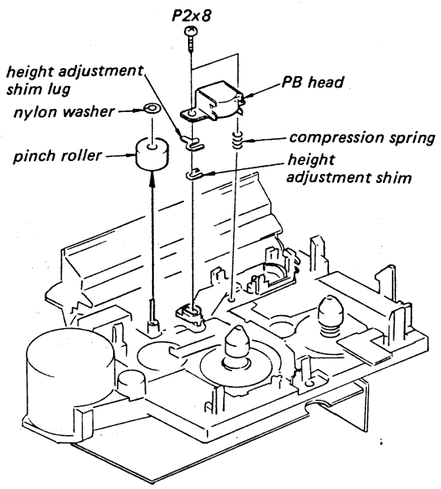


POWER BOARD

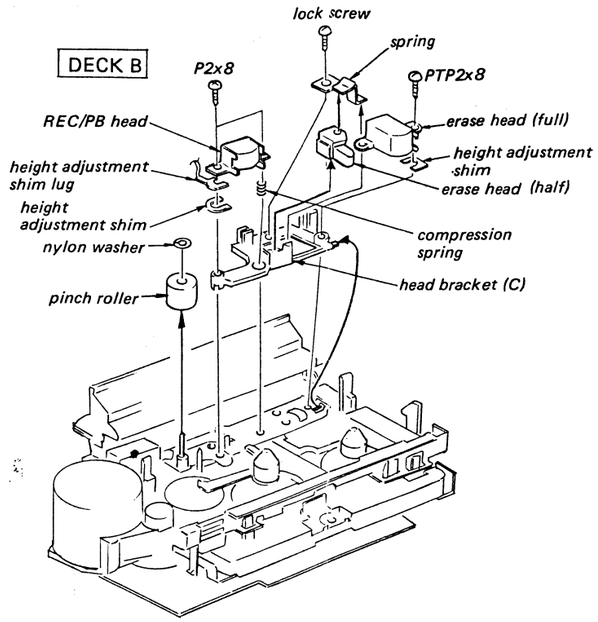


HEAD AND PINCH ROLLER

DECK A

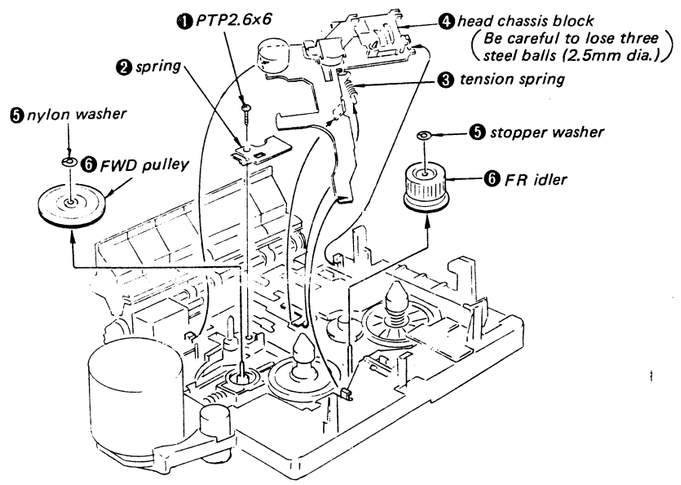


DECK B

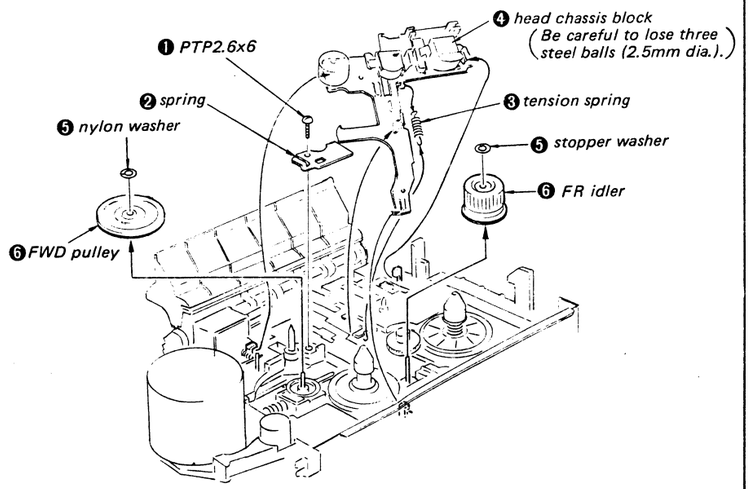


FWD PULLEY AND FR IDLER

DECK A



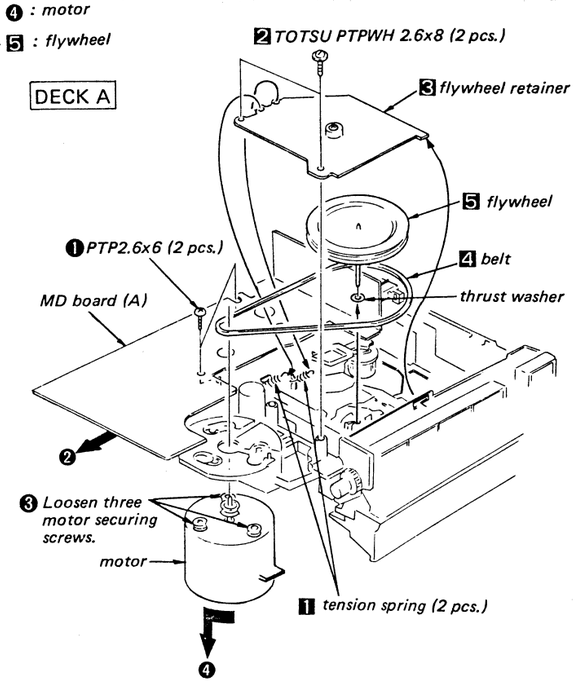
DECK B



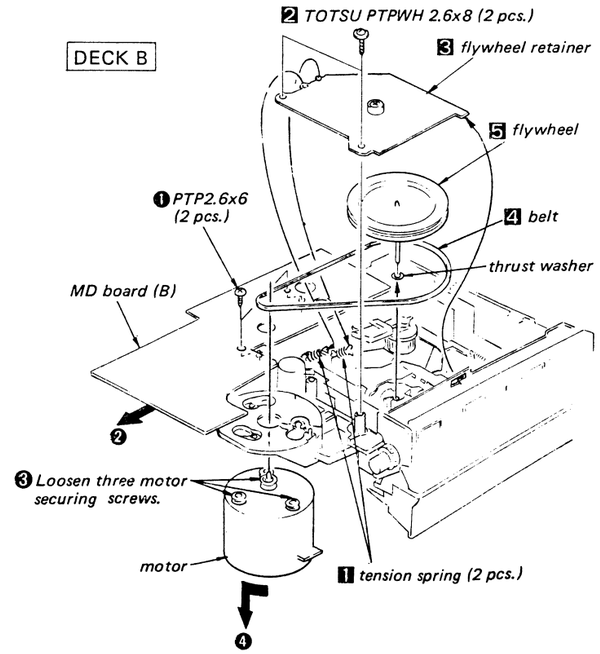
MD BOARD, MOTOR AND FLYWHEEL

❶, ❷ : MD board
❸, ❹ : motor
❶ – ❺ : flywheel

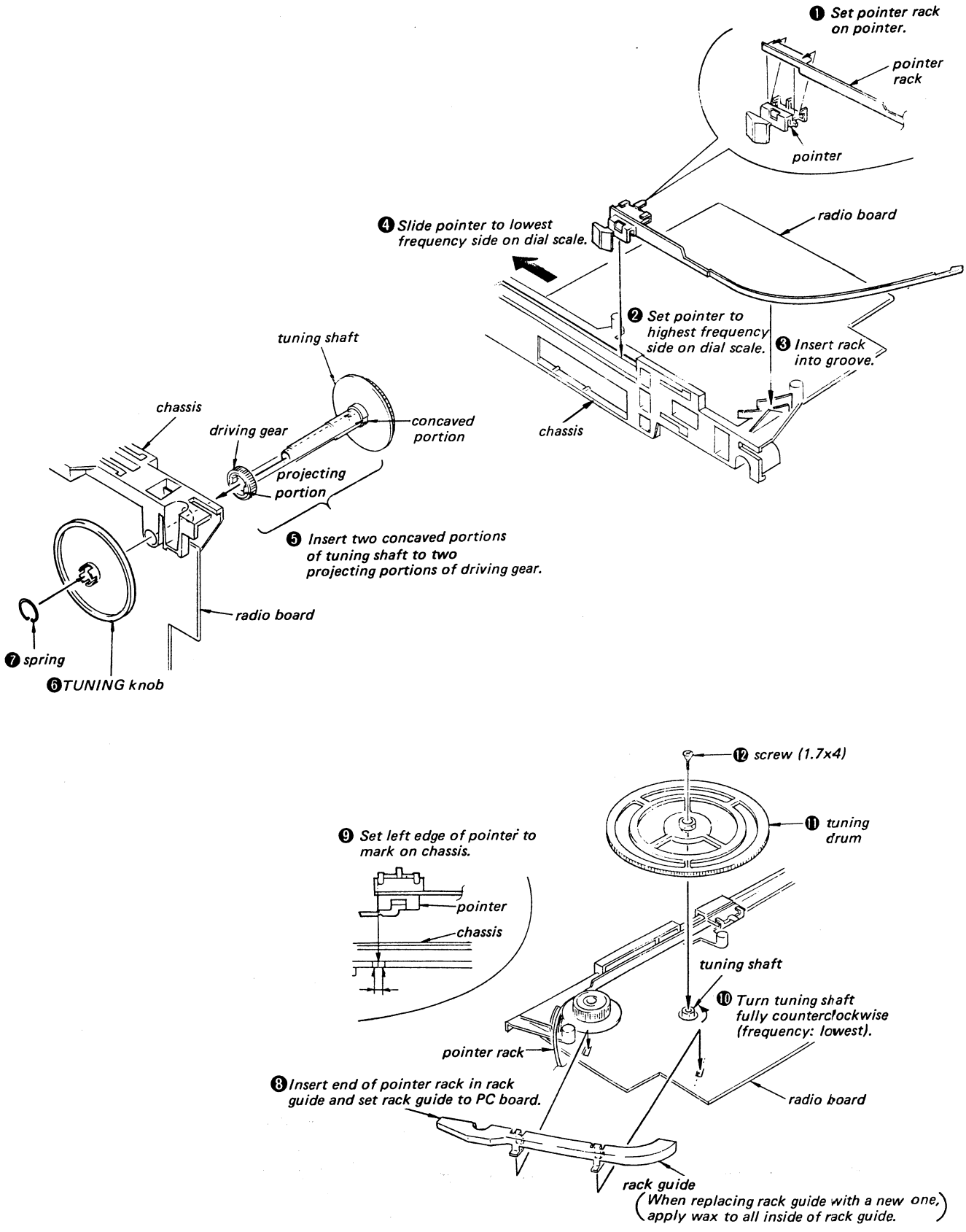
DECK A



DECK B



2-2. POINTER DRIVE BLOCK REINSTALLATION


❶ Set pointer rack on pointer.
pointer rack
pointer
radio board
❹ Slide pointer to lowest frequency side on dial scale.
❷ Set pointer to highest frequency side on dial scale.
❸ Insert rack into groove.
chassis
tuning shaft
chassis
driving gear
concaved portion
projecting portion
❺ Insert two concaved portions of tuning shaft to two projecting portions of driving gear.
radio board
❼ spring
❻ TUNING knob
⓬ screw (1.7x4)
⓫ tuning drum
❾ Set left edge of pointer to mark on chassis.
pointer
chassis
tuning shaft
❿ Turn tuning shaft fully counterclockwise (frequency: lowest).
pointer rack
❽ Insert end of pointer rack in rack guide and set rack guide to PC board.
radio board
rack guide
(When replacing rack guide with a new one, apply wax to all inside of rack guide.)

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS AND MEASUREMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

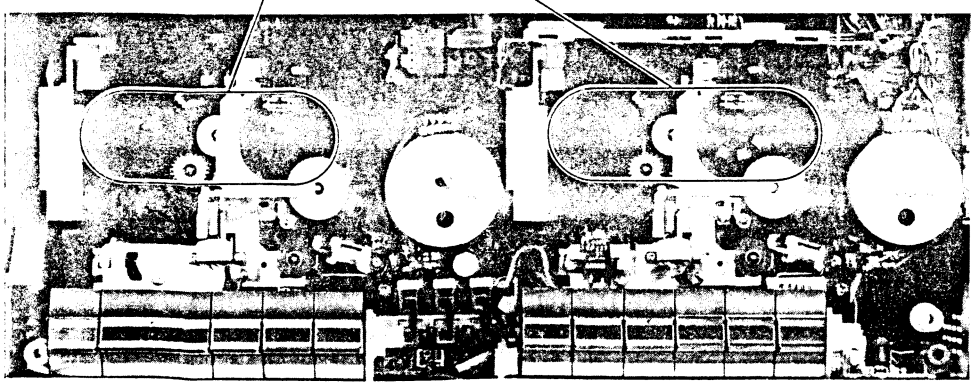
2. Demagnetize the record/playback and erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

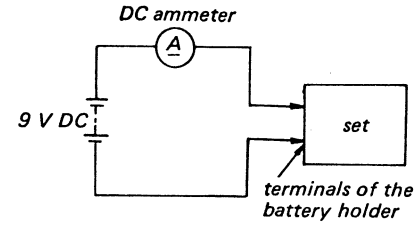
Torque	Torque Meter	Meter Reading
Playback	CQ-102C	22.5 – 55 g•cm (0.31 – 0.76 oz•inch)
Rewind	CQ-201B	80 – 125 g•cm (1.11 – 1.73 oz•inch)
Fast Forward	CQ-201B	more than 80 g•cm (more than 1.11 oz•inch)
Back Tension	CQ-102C	less than 3.5 g•cm (less than 0.05 oz•inch)

Tape Tension Measurement

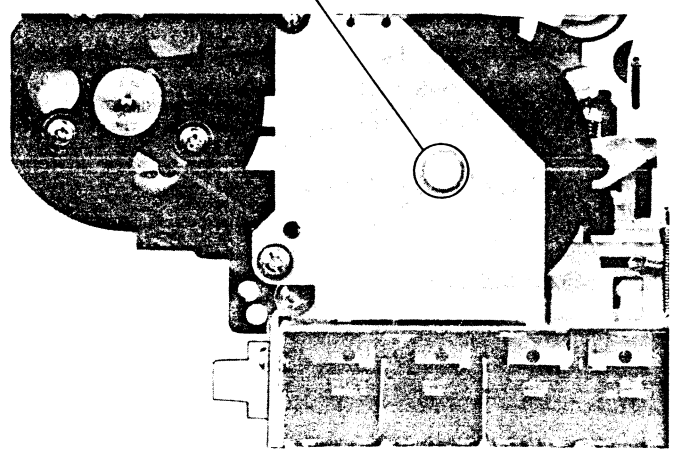
Meter	Meter Reading
CQ-403A	more than 150g (5.29 oz)



Flywheel Thrust Play Adjustment
(for both decks A, B)
– Playback Mode –



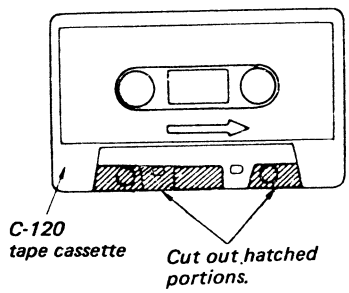
1. Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
3. Then, turn the thrust screw counterclockwise about ¼ turn from the position obtained in step 2.



Tape Path Adjustment

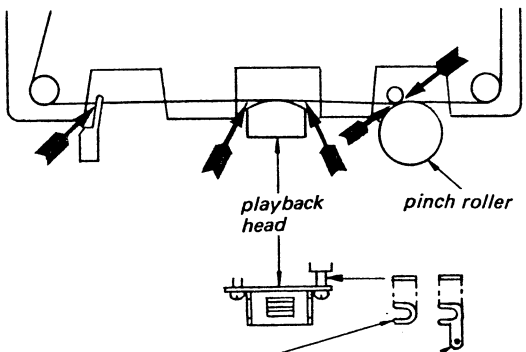
Procedure:

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.

– DECK A –



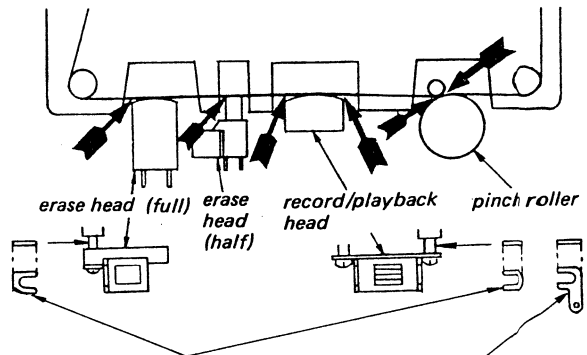
height adjustment shim

Part No.	t (mm)
3-578-138-01	0.1
3-578-138-11	0.2
3-578-138-21	0.3

height adjustment shim lug

Part No.	t (mm)
3-313-386-11	0.2
3-313-386-21	0.3
3-313-386-31	0.5

– DECK B –

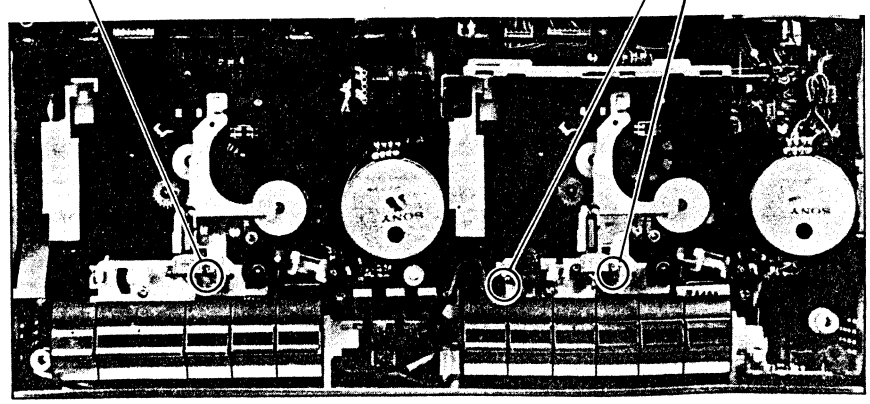


height adjustment shim

Part No.	t (mm)
3-578-138-01	0.1
3-578-138-11	0.2
3-578-138-21	0.3

height adjustment shim lug

Part No.	t (mm)
3-313-386-11	0.2
3-313-386-21	0.3
3-313-386-31	0.5

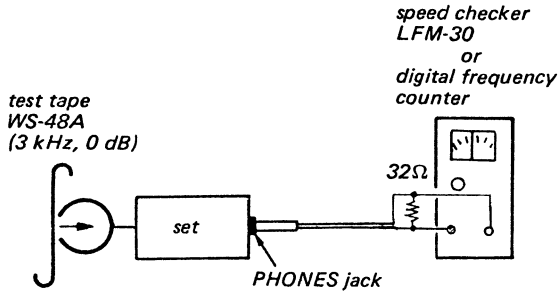


3-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

Tape Speed Adjustment (for both decks A, B)

Procedure:

Mode: playback



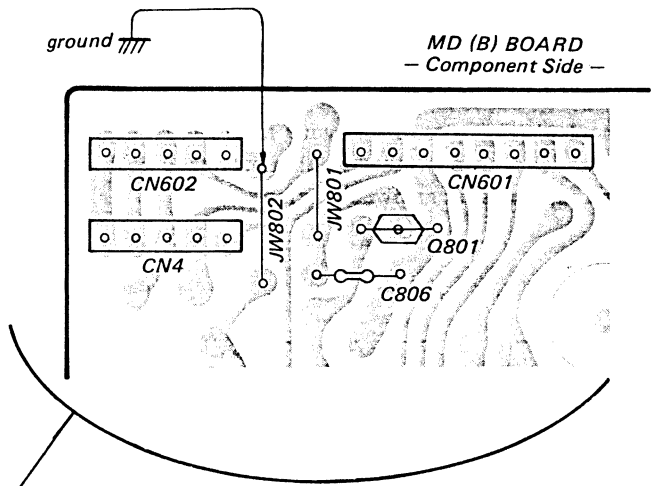
1. Connect lead wire with JW802 as illustrated right and is grounded (it results in HI-SPEED mode.)
2. Set test tape WS-48A to cassette deck A (deck B) and playback mode.
3. Adjust RV701 (RV601) for specification on frequency counter or speed checker.
4. Remove lead wire connected in step 1. (it results in NORM SPEED mode.)
5. Adjust RV702 (RV602) for specification on frequency counter or speed checker.

Note: Be sure to make HI-SPEED adjustment at first.

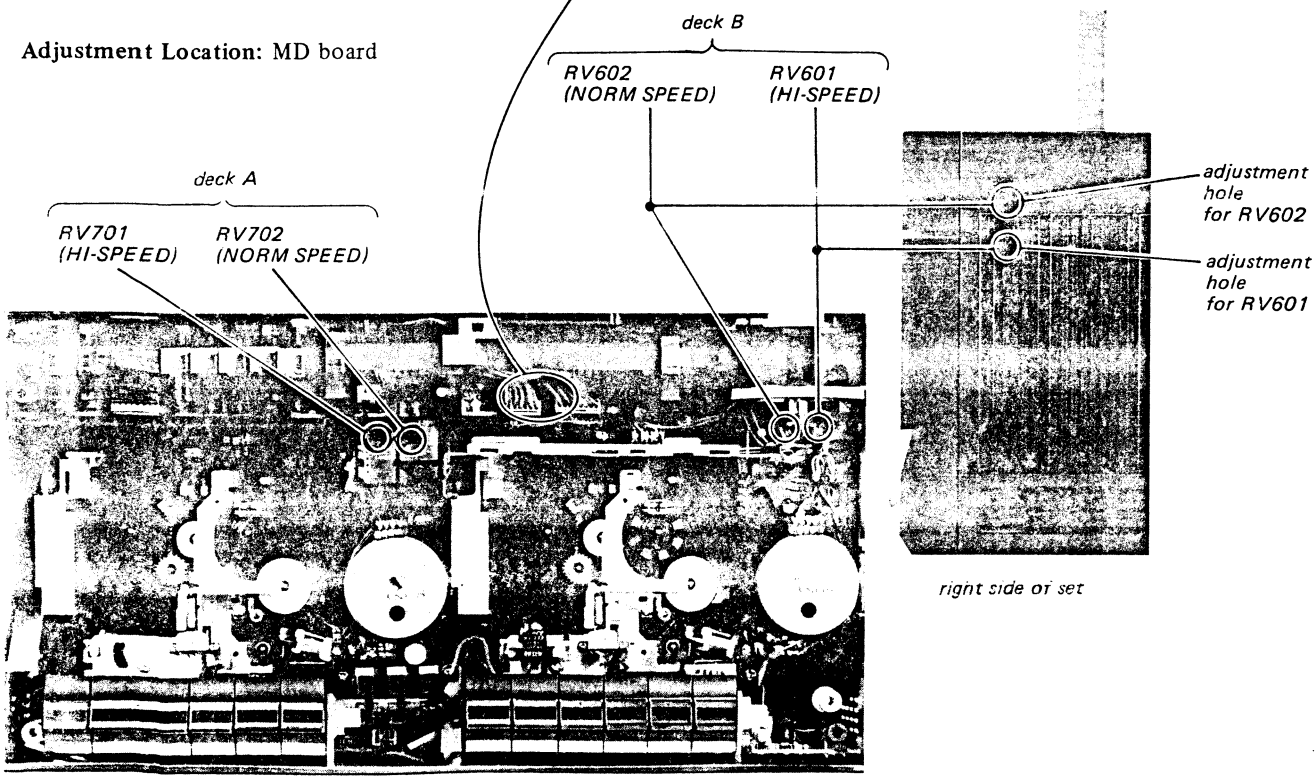
Specification:

Tape speed	Digital frequency counter	Speed checker
HI-SPEED	5,940 – 6,060 Hz	±1%
NORM SPEED	2,970 – 3,030 Hz	

Frequency difference between the beginning and the end of the tape should be within ±1% (±60 Hz: HI-SPEED, ±30 Hz: NORM SPEED).



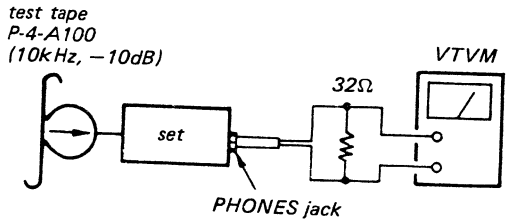
Adjustment Location: MD board



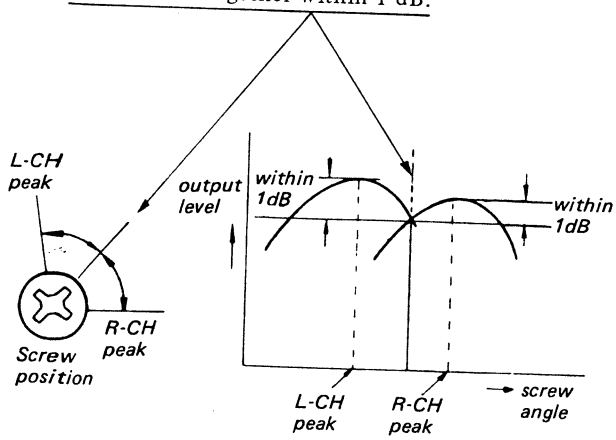
Playback Head Azimuth Adjustment (Deck A)
Record/Playback Head Azimuth Adjustment (Deck B)

Procedure:

1. Mode: playback



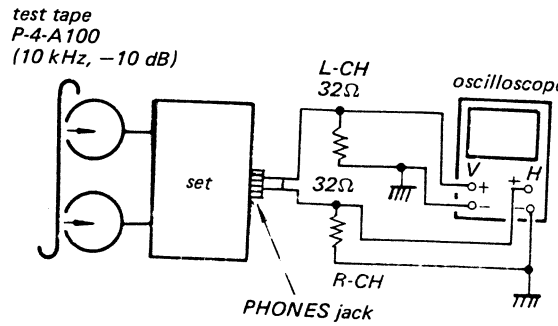
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 1 dB.

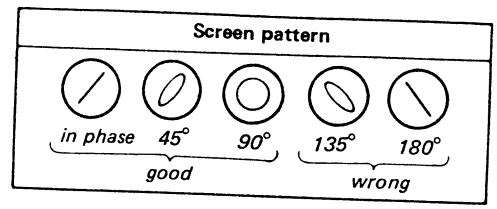


Note: Finish the screw adjustment with a turn in the clockwise direction. After the adjustment, lock the adjustment screw with suitable locking compound.

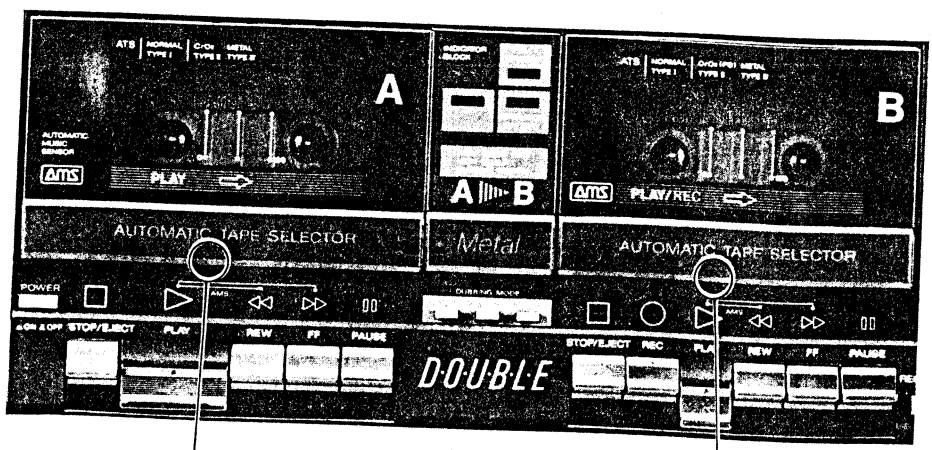
3. Phase Check

Mode: playback





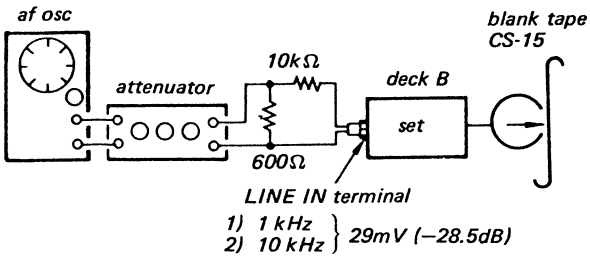
Adjustment Location:



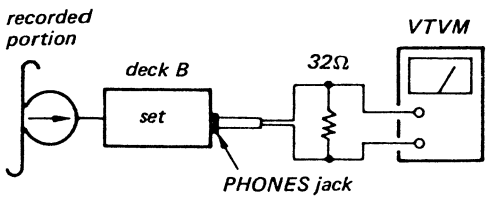
Record Bias Adjustment 1

Procedure:

1. Mode: record



2. Mode: playback

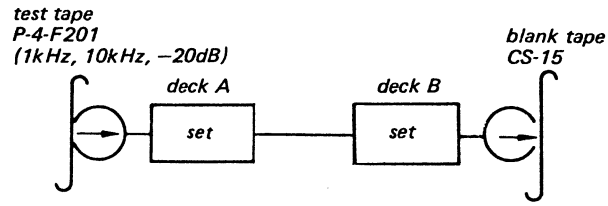


Adjust RV103 (L-CH), RV203 (R-CH) so that 10kHz output is −2 to 0 dB relative to 1kHz output.

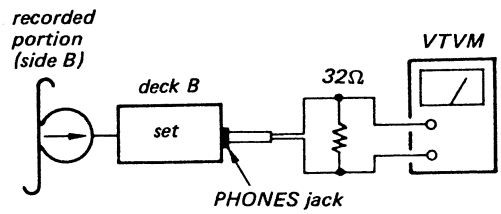
Record Bias Adjustment 2

Procedure:

1. Mode: dubbing
(DUBBING MODE switch: BOTH SIDES HI-SPEED)

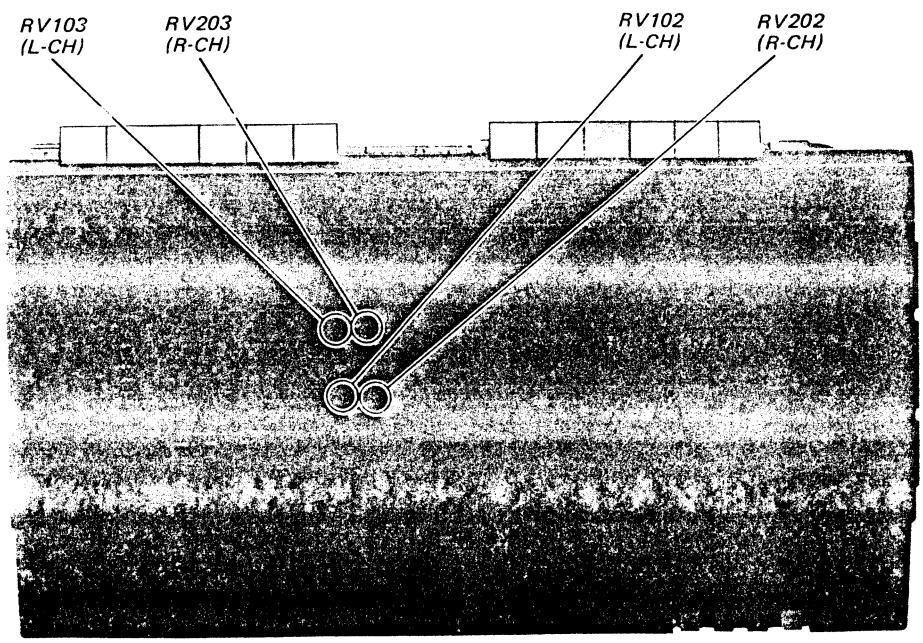


2. Mode: playback



Adjust RV102 (L-CH), RV202 (R-CH) so that 10kHz output is −2 to 0 dB relative to 1kHz output.

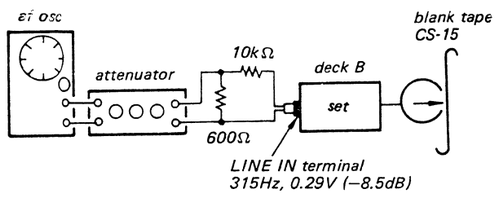
Adjustment Location: main board



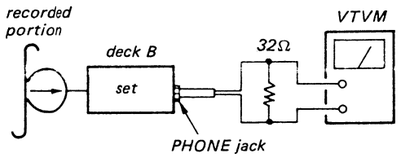
Record Level Adjustment 1

Procedure:

1. Mode: record

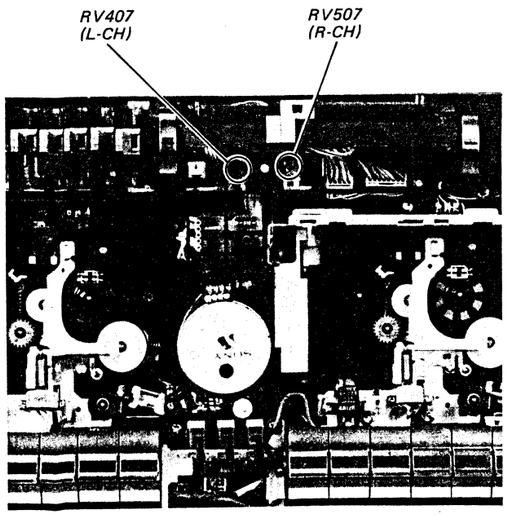


2. Mode: playback



Adjust RV407 (L-CH), RV507 (R-CH) so that output level is –1 to 1 dB.

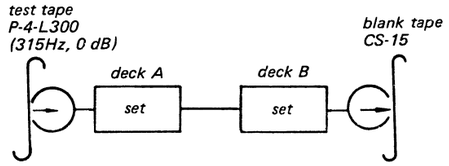
Adjustment Location: PRE board



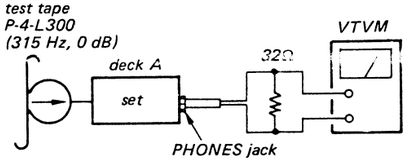
Record Level Adjustment 2

Procedure:

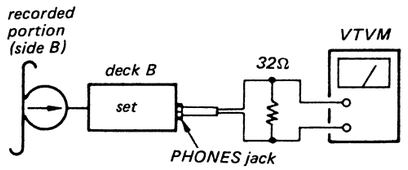
1. Mode: dubbing
(DUBBING MODE switch: BOTH SIDES Hi-SPEED)



2. Mode: playback

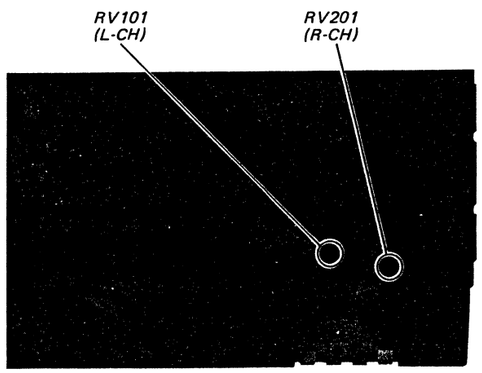


3. Mode: playback



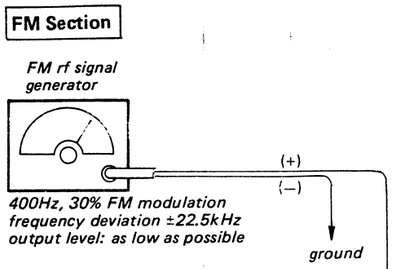
Adjust RV101 (L-CH), RV201 (R-CH) so that output level in step 3 is –1 to 1 dB relative to that in step 2.

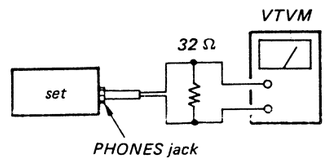
Adjustment Location: main board



3-3. RADIO SECTION ELECTRICAL ADJUSTMENTS

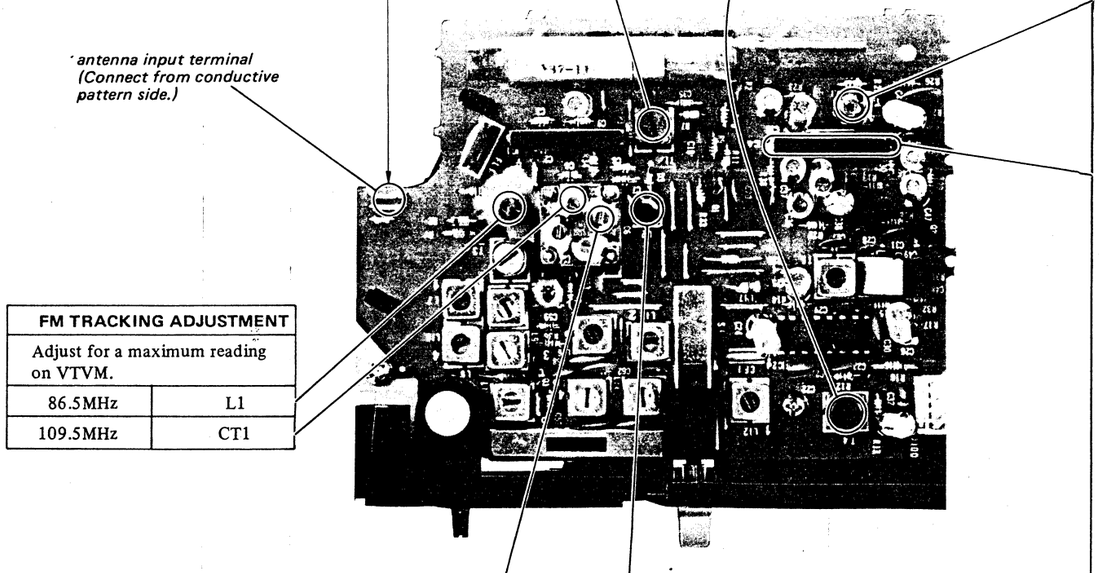
FM Section





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T1	T4



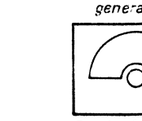
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5MHz	L1
109.5MHz	CT1

Adjustment parts	CT2	L2
SG frequency	109.5MHz	86.5MHz
Pointer setting	right end (f max)	left end (f min)
Adjust for a maximum reading on VTVM.		
FM FREQUENCY COVERAGE ADJUSTMENT		

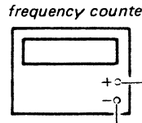
VCO Adjustme

A) Regular Me

Procedure:



1. Connect jump
2. Connect frequ
3. Tune the set
4. Adjust RV1 f
frequency cou
5. Remove jump



B) Simple Met

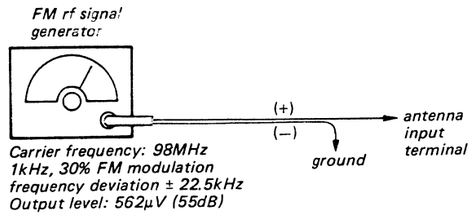
Procedure:

1. Tune the se
2. Turn RV1
memorize
STEREO la
3. Secure RV
of both tur

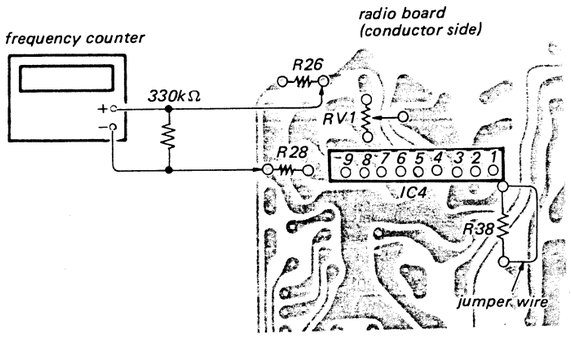
VCO Adjustment

A) Regular Method

Procedure:



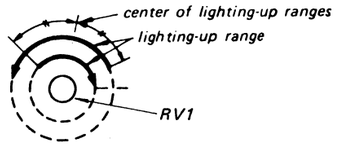
1. Connect jumper wire across R38.
2. Connect frequency counter to it as shown below.
3. Tune the set to 98MHz.
4. Adjust RV1 for 38kHz ± 0.2kHz reading on the frequency counter.
5. Remove jumper wire mounted in step 1.



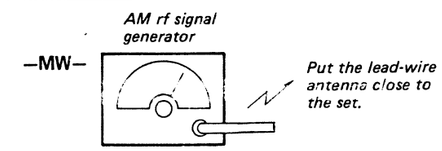
B) Simple Method

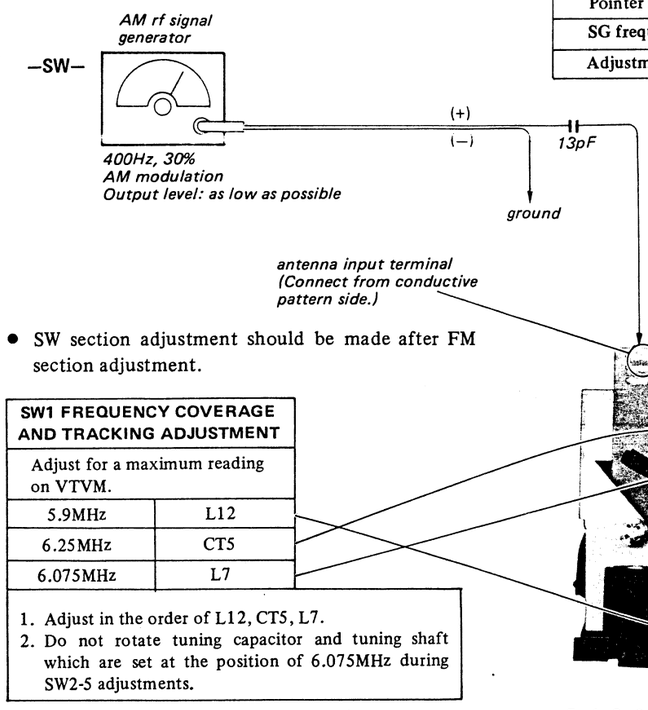
Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



AM Section



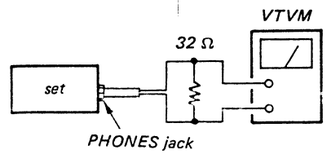


- SW section adjustment should be made after FM section adjustment.

SW1 FREQUENCY COVERAGE AND TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
5.9MHz	L12
6.25MHz	CT5
6.075MHz	L7

1. Adjust in the order of L12, CT5, L7.
2. Do not rotate tuning capacitor and tuning shaft which are set at the position of 6.075MHz during SW2-5 adjustments.

Note: SW2-5 frequency coverage and tracking adjustment should be made after SW1 frequency coverage and tracking adjustment.

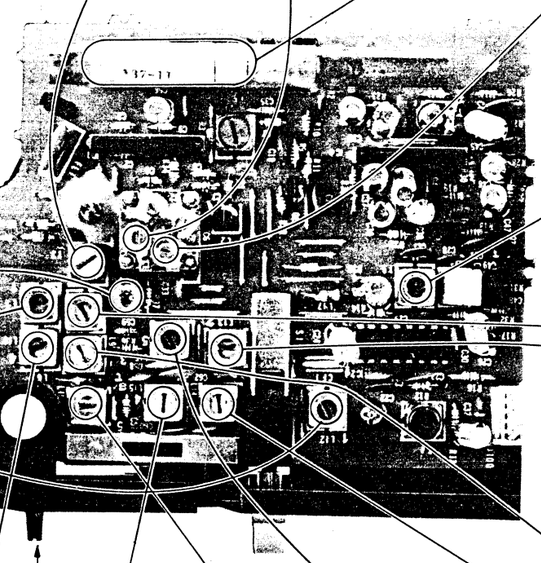


- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW FREQUENCY COVERAGE ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
Pointer setting	left end (f min)	right end (f max)
SG frequency	520kHz	1,660kHz
Adjustment parts	T3	CT4

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
620kHz	1,400kHz
L5	CT3

AM IF ALIGNMENT
Adjust for a maximum reading on VTVM.
455kHz
T5



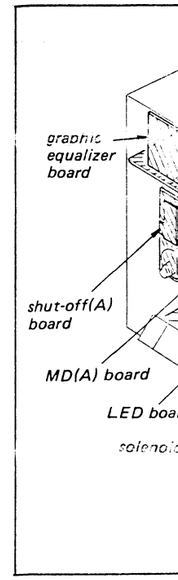
L13	L8
9.65MHz	
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE	TRACKING
SW2 ADJUSTMENT	

L10	L15
15.3MHz	
Adjust for a maximum reading on VTVM.	
TRACKING	FREQUENCY COVERAGE
SW4 ADJUSTMENT	

L11	L16
17.8MHz	
Adjust for a maximum reading on VTVM.	
TRACKING	FREQUENCY COVERAGE
SW5 ADJUSTMENT	

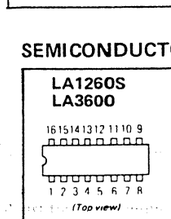
L14	L9
11.85MHz	
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE	TRACKING
SW3 ADJUSTMENT	

CIRCUIT BOARD

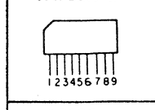


SEMICONDUCT

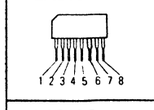
LA1260S
LA3600



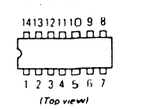
LA2010
TA7343AP
TA7358AP



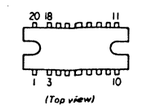
LA3161



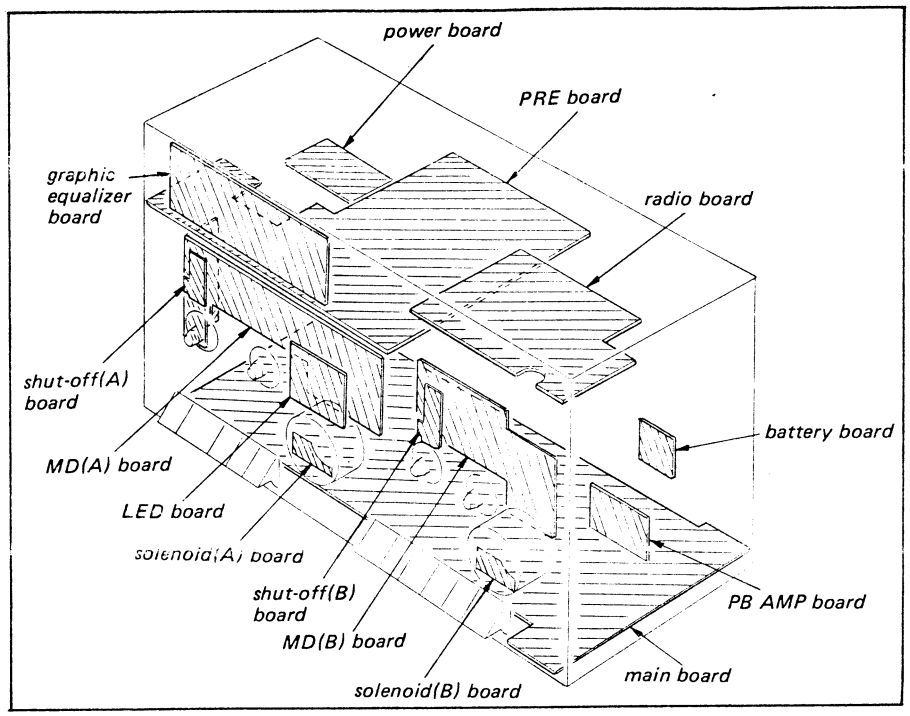
LA3220



LA4126T

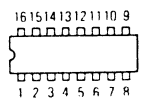


CIRCUIT BOARDS LOCATION

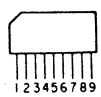


SEMICONDUCTOR LEAD LAYOUTS

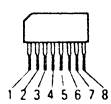
LA1260S
LA3600



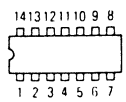
LA2010
TA7343AP
TA7358AP



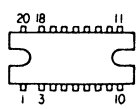
LA3161



LA3220



LA4126T



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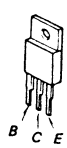
2SC2603-F
2SC2724-C

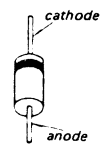
2SC2001

2SD313HP

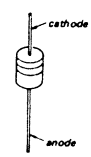


2SK193-E

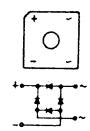
1S2687S-1
RD6.8E-B2



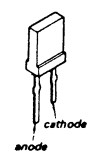
1SS119



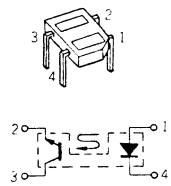
S3WB60Z



SLP162B



GP-2S04-B



ADJUSTMENT
ximum reading
1,400kHz
CT3

AM IF ALIGNMENT
Adjust for a maximum reading on VTVM.
455kHz
T5

L13	L8
9.65MHz	
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE	TRACKING
SW2 ADJUSTMENT	

L14	L9
11.85MHz	
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE	TRACKING
SW3 ADJUSTMENT	

SECTION 4
DIAGRAMS

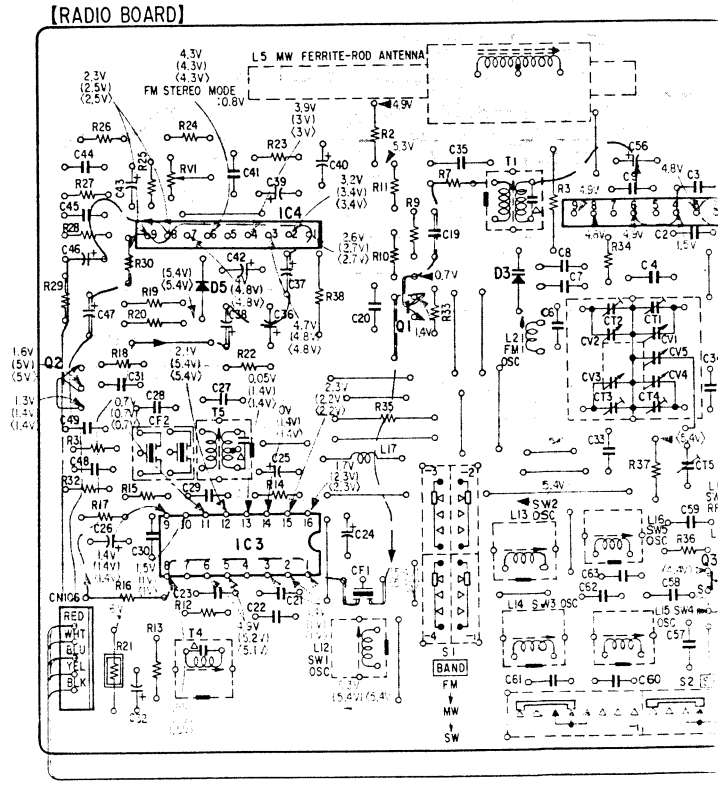
- **Refer to page 21 for semiconductor lead layouts.**
- **Refer to page 32 for notes.**

4-1. MOUNTING DIAGRAM

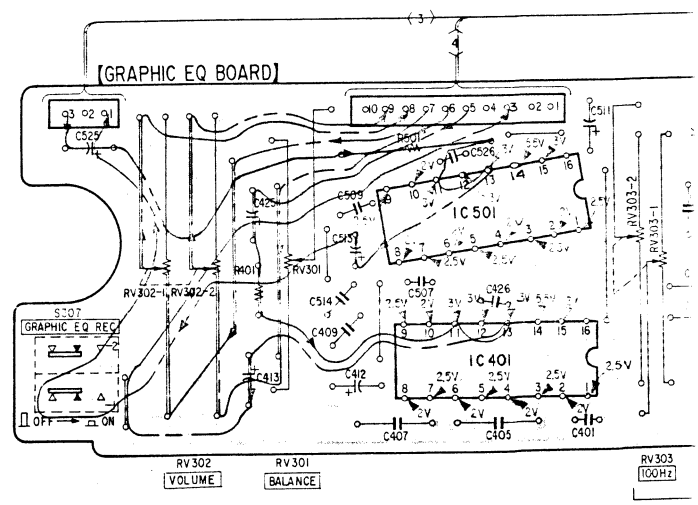
– Conductor Side –

	1	2	3	4
A	Q , IC	2 IC4 IC3	1 IC501 IC401	IC1 3
B	D	5	3	
C				
D				
E				
F				
G				
H				
I				
J				

【RADIO BOARD】



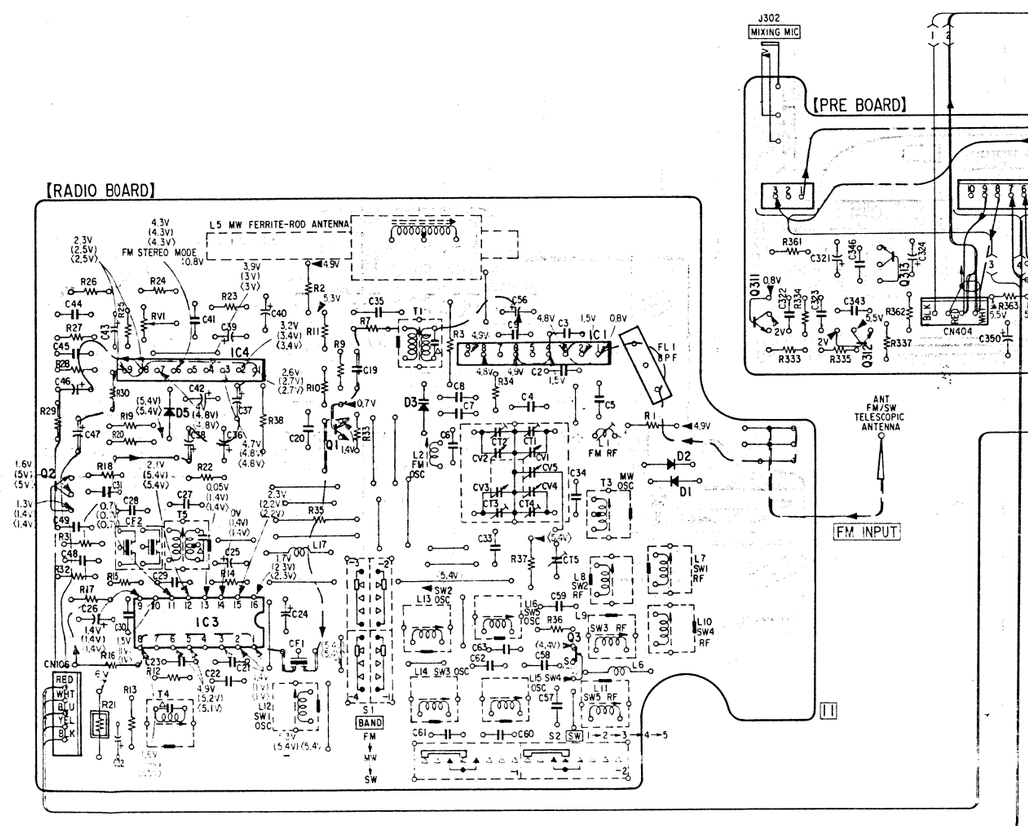
【GRAPHIC EQ BOARD】

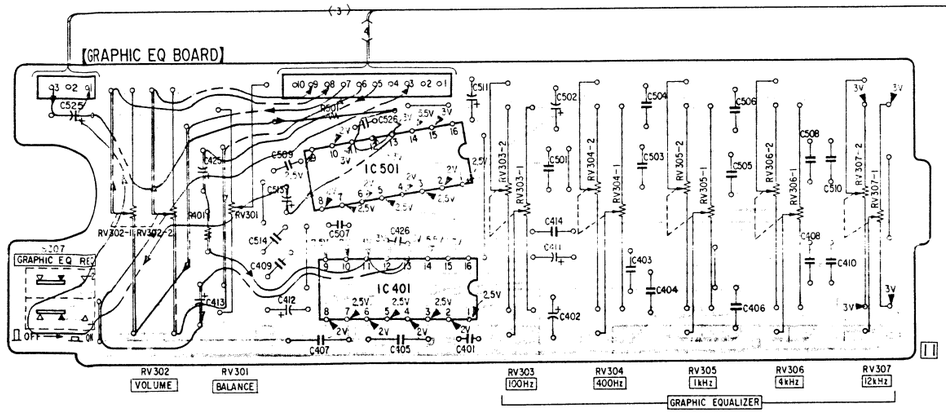


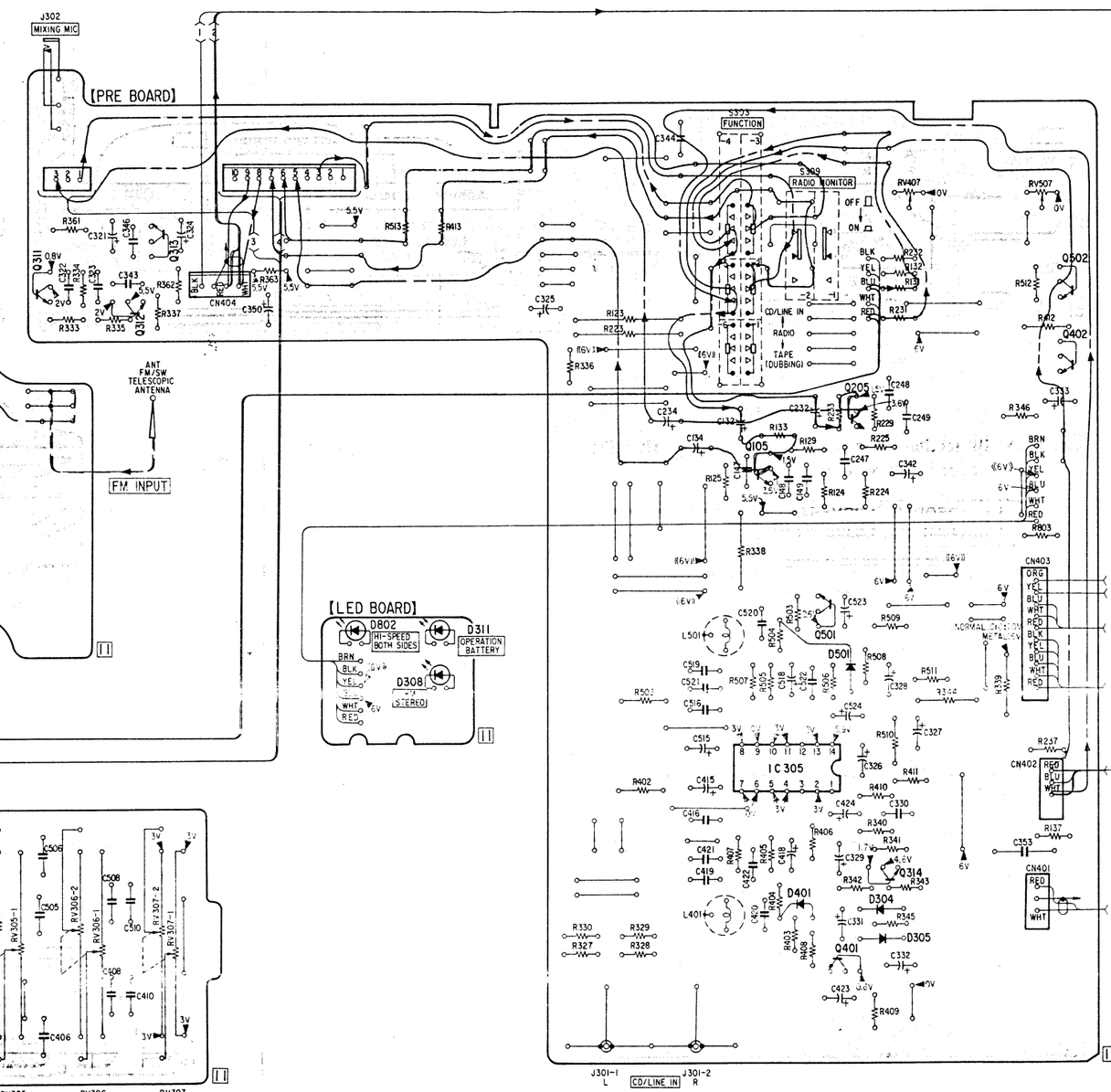
ON 4
AMS

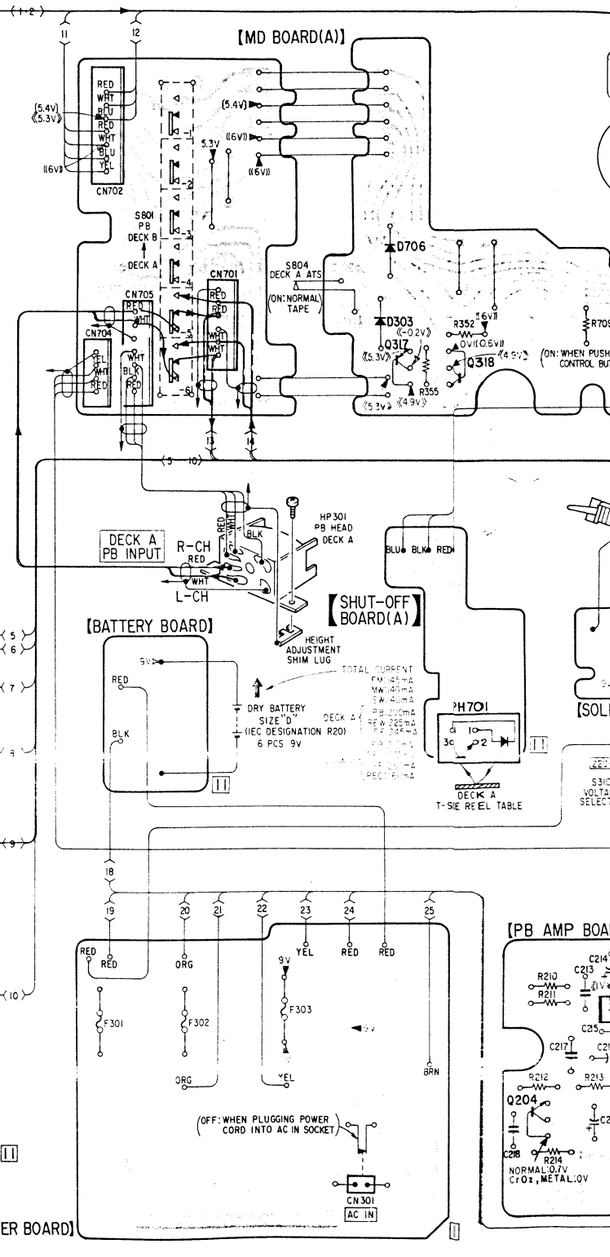
- Refer to page 21 for semiconductor lead layouts.
- Refer to page 32 for notes.

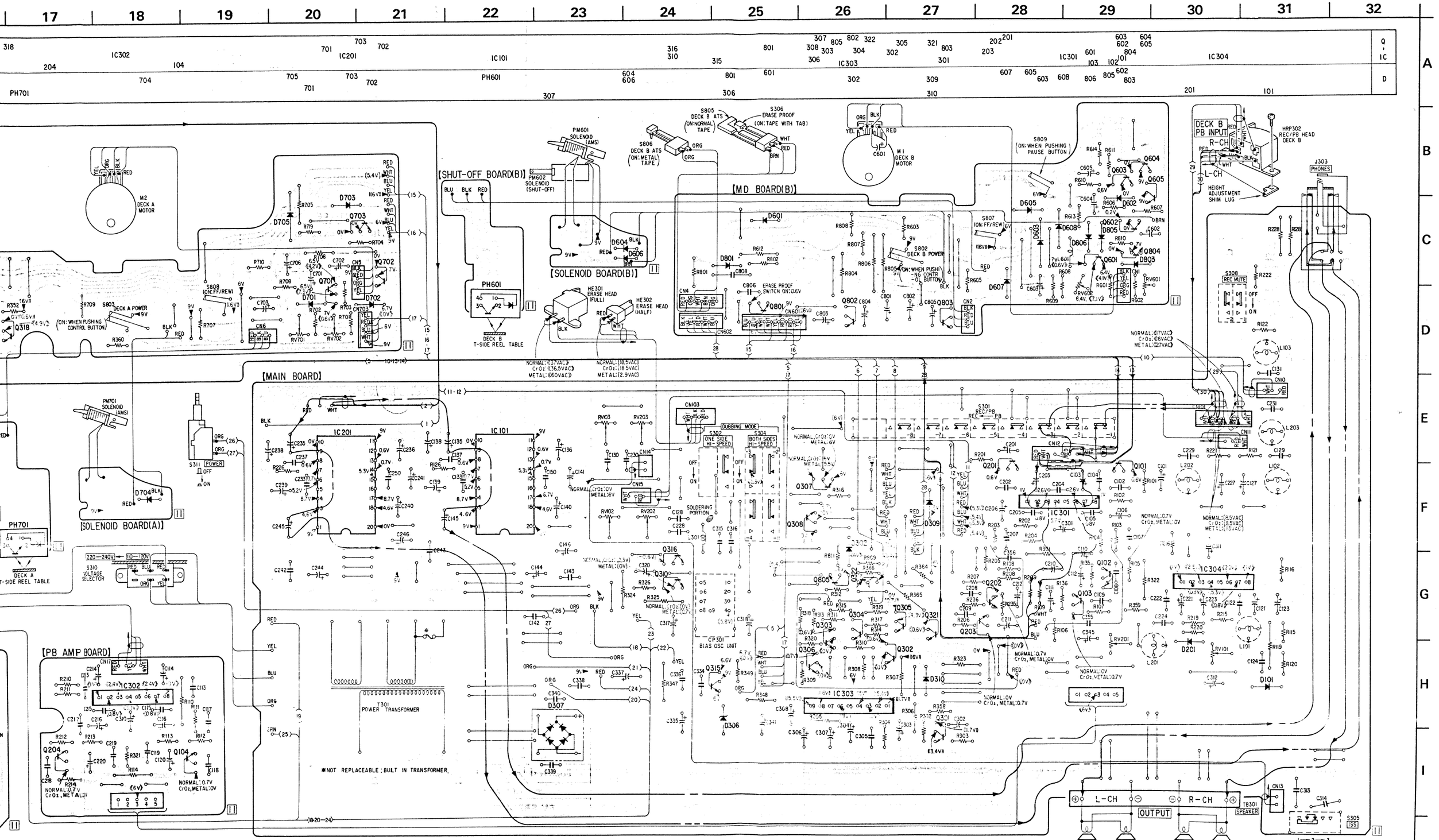
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Q, IC	2 IC4 IC3	1	IC501 IC401	IC1 3	311	312 313				105 IC305	205 501 401 314	502 402			317	318 204
D	5	3	2 1				802	311 308		401	501 304 305				706 303	PH701



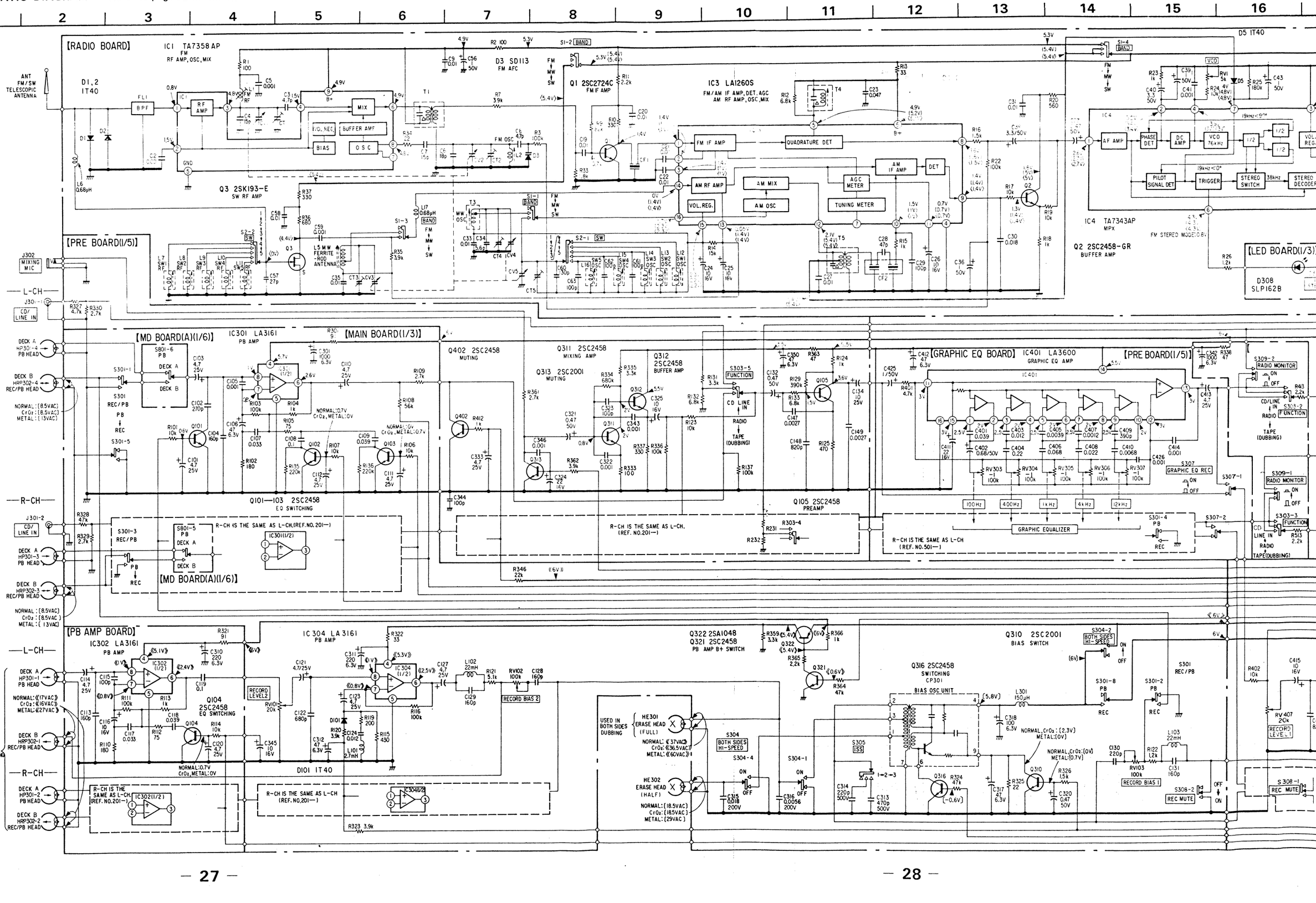







17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
A
B
C
D
E
F
G
H
I
J
Q ' IC
D
PH701
M2 DECK A MOTOR
S808 (ON:FF/REW)
S803 DECK A POWER
(ON: WHEN PUSHING CONTROL BUTTON)
Q318
R360
PH701
DECK A T-SIDE REEL TABLE
S310 VOLTAGE SELECTOR
220—240V
110—120V
PM701 SOLENOID (AMS)
S311 POWER
OFF
ON
D704
[SOLENOID BOARD(A)]
[SHUT-OFF BOARD(B)]
PM602 SOLENOID (SHUT-OFF)
PM601 SOLENOID (AMS)
S805 DECK B ATS (ON:NORMAL TAPE)
S806 DECK B ATS (ON:METAL TAPE)
S306 ERASE PROOF (ON:TAPE WITH TAB)
M1 DECK B MOTOR
[MD BOARD(B)]
[SOLENOID BOARD(B)]
PH601
DECK B T-SIDE REEL TABLE
HE301 ERASE HEAD (FULL)
HE302 ERASE HEAD (HALF)
S809 (ON:WHEN PUSHING PAUSE BUTTON)
S807 (ON:FF/REW)
S802 DECK B POWER
(ON:WHEN PUSHING NO CONTR OL BUTTON)
ERASE PROOF SWITCH ON:0.6V
DECK B PB INPUT
R-CH
L-CH
HRP302 REC/PB HEAD DECK B
HEIGHT ADJUSTMENT SHIM LUG
J303 PHONES
S308 REC MUTE
[MAIN BOARD]
IC201
IC101
IC301
IC303
IC304
S301 REC/PB
S302 ONE SIDE HI-SPEED
S304 BOTH SIDES HI-SPEED
DUBBING MODE
SOLDERING PORTION
CP301 BIAS OSC UNIT
T301 POWER TRANSFORMER
*NOT REPLACEABLE ; BUILT IN TRANSFORMER
[PB AMP BOARD]
IC302
Q204
Q104
L-CH
R-CH
OUTPUT
TB301 SPEAKER
SP101 TWEETER
SP102 WOOFER
SP202 WOOFER
SP201 TWEETER
S305 (SS)

4-2. SCHEMATIC DIAGRAM ● Refer to page 32 for notes.


【RADIO BOARD】
IC1 TA7358AP FM RF AMP, OSC, MIX
IC3 LA1260S FM/AM IF AMP, DET. AGC AM RF AMP, OSC, MIX
Q1 2SC2724C FM IF AMP
Q3 2SK193-E SW RF AMP
D3 SD113 FM AFC
D1, 2 1T40
D5 1T40
IC4 TA7343AP MPX
Q2 2SC2458-GR BUFFER AMP
【PRE BOARD(I/5)】
【LED BOARD(I/3)】
D308 SLP162B
【MD BOARD(A)(I/6)】
IC301 LA3161 PB AMP
【MAIN BOARD(I/3)】
Q402 2SC2458 MUTING
Q311 2SC2458 MIXING AMP
Q313 2SC2001 MUTING
Q312 2SC2458 BUFFER AMP
Q105 2SC2458 PREAMP
【GRAPHIC EQ BOARD】 IC401 LA3600 GRAPHIC EQ AMP
Q101—103 2SC2458 EQ SWITCHING
【PB AMP BOARD】
IC302 LA3161 PB AMP
IC304 LA3161 PB AMP
Q104 2SC2458 EQ SWITCHING
Q322 2SA1048 Q321 2SC2458 PB AMP B+ SWITCH
Q310 2SC2001 BIAS SWITCH
Q316 2SC2458 SWITCHING CP301
D101 1T40
ANT FM/SW TELESCOPIC ANTENNA
L-CH
R-CH
J302 MIXING MIC
J301-1 CD/ LINE IN
DECK A HP301-4 PB HEAD
DECK B HRP302-4 REC/PB HEAD
DECK A HP301-3 PB HEAD
DECK B HRP302-3 REC/PB HEAD
DECK A HP301-1 PB HEAD
DECK B HRP302-1 REC/PB HEAD
DECK A HP301-2 PB HEAD
DECK B HRP302-2 REC/PB HEAD
SIDE B REC/PB IN BOTH SIDES DUBBING
RECORD LEVEL2
RECORD BIAS 2
RECORD BIAS 1
HE301 ERASE HEAD (FULL)
HE302 ERASE HEAD (HALF)
USED IN BOTH SIDES DUBBING
S304 BOTH SIDES HI-SPEED
S305 ISS
S307 GRAPHIC EQ REC
S308-1 REC MUTE
S308-2 REC MUTE
S309-1 RADIO MONITOR
S309-2 RADIO MONITOR
GRAPHIC EQUALIZER
100Hz 400Hz 1kHz 4kHz 12kHz
R-CH IS THE SAME AS L-CH (REF. NO.201—)
R-CH IS THE SAME AS L-CH (REF. NO.501—)
R-CH IS THE SAME AS L-CH. (REF. NO.201—)
【MD BOARD(A)(I/6)】

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

D5 IT40

VCO

RV1 5k

R24 10k

R25 180k

C43 50

C42 47 10V

R38 68

C32 47 10V

R21 22

VCO 76kHz

1/2

1/2

1/2

VOL. REG.

TRIGGER

STEREO SWITCH

38kHz

STEREO DECODER

R29 1.5k

C49 0.01

R30 1.5k

C47 4.7/25V

R26 3.3k

R31 1.8k

C48 0.01

C45 0.027

【LED BOARD(1/3)】

D308 SLP162B

D309 FM STEREO

R26 1.2k

S309-2 RADIO MONITOR

S303-2 FUNCTION

CD/LINE IN

RADIO

TAPE (DUBBING)

RV302-1 100k VOLUME

RV301 100k BALANCE

S307-1

S307-2

S309-1 RADIO MONITOR

S303-3 FUNCTION

RV302-2

R513 2.2k

【MAIN BOARD(1/3)】

IC101 LA4126T POWER AMP

IC 101

INPUT AMP

OUTPUT AMP

MUTING

RIPPLE FILTER

C135 0.47 50V

C137 0.001

C138 100 10V

R126 15

C133 10p

C134 10 16V

C145 100 10V

C142 0.1

C139 100 10V

C141 100 10V

C144 100 10V

C140 100 10V

C143 0.1

C136 100 16V

C150 10

R228 150

R128 150

J303 PHONES

TS301 SPEAKER

SP101 SPEAKER (TWEETER)

SP102 SPEAKER (WOOFER)

L-CH

SP201 SPEAKER (TWEETER)

SP202 SPEAKER (WOOFER)

R-CH

R-CH IS THE SAME AS L-CH. (REF. NO. 201—)

Q301 2SC2458

IC303 LA2010

AMP

COMPARATOR

HOLD

RESET

R307 100

R306 2.7k

C307 3.3 25V

R305 100k

C308 47 6.3V

R302 470k

Q301

C302 0.47 50V

C303 0.47 50V

IC 303

C304 0.47 50V

R303 1.2k

C305 0.22

R304 240k

C306 47 6.3V

R358 1k

D310

D310 IT40

【PRE BOARD(1/5)】

S303-6 FUNCTION

CD/LINE IN

RADIO

TAPE(DUBBING)

S801-1 PB

DECK A

DECK B

【MD BOARD (A) (1/6)】

【SOLENOID BOARD(A)】

D704 *PM701 SOLENOID (AMS)

D704 IT40

D604 *PM601 SOLENOID (AMS)

D604 IT40

【SOLENOID BOARD(B)(1/2)】

【MD BOARD(A)(1/6)】

D309 IT40

S301-7 REC/PB

D309 PB REC

S801-2 PB DECK A DECK B

【PRE BOARD(1/5)】

CD/LINE IN

RADIO

S303-1 FUNCTION

TAPE (DUBBING)

【MD BOARD(A)BOARD】

【SHUT-OFF BOARD(A)】

PH701

Q703,702 2SC2458 SHUT-OFF DET

R707 510

R708 100k

C703 0.47 50V

R719 47k

R705 100k

C706 22 16V

R706 100k

Q705

Q703

Q702

C702 22 10V

R704 220

D702

D702 IT40

D703

D703,705 IT40

PH701 GP-2S04 SPEED DET

S808 (ON:FF/REW)

R703 47k

Q701 2SC2458 MOTOR CONTROL (TAPE SPEED INCRM-SPEED)

RV702 5k

R702 13k

R701 4.7k

Q701

RV701 5k

D701 IT40 (TAPE SPEED DECRM-SPEED)

C701 220 16V

S803 DECK (ON:WHEN CONTRO

R360 330

S804 DECK A ATS (ON:NORMAL TAPE)

【MD BOARD(B)】

D303,706 IT40

S306 ERASE PROOF (ON:TAPE WITH TAB)

【MAIN BOARD(1/3)】

【PRE BOARD(1/5)】

Q801—803 2SC2458 ERASE PROOF

D801 IT40

Q317 2SA1048 SWITCHING

L303

Q317

D706

D302

D302 IT40

R809 47k

R811 3.9k

R356 47k

Q318

R352 220k

Q318 2SC2458 SWITCHING

Q805

Q805 2SC2458 MOTOR STOP DET

D802

H-SPEED BOTH SIDES

D802 SLP162B

【LED BOARD(1/3)】

R803 1.5k

R806 10k

R801 22k

D801

Q801

R802 47k

R804 10k

R805 470k

R807 10k

C803 4.7

C806 0.01

C804 2.2 50V

Q801 0.47/50V

Q802

Q802 0.47/50V

Q803

C805 2.2 50V

R612 100k

S804-2 PB DECK A DECK B

S801-3 PB DECK A DECK B

S809 (ON:WHEN PUSHING PAUSE BUTTON.)

Q603,604 2SC2458 SHUT-OFF DET

PH601

【SHUT-OFF BOARD(B)】

PH601 GP-2S04 SPEED DET

R608 510

R609 100k

C604 2.2/50V

R610 10k

R614 100k

D602

C603 3.3/50V

D603

D607

R611 100k

Q603

Q604

R613 4.7k

C605 3.3 50V

Q605

D605 D608

D605,608 IT40

Q605 2SC2001 SOLENOID DRIVE

D803

D601,803 IT40

L601 3.3μH

S807 (ON:FF/REW)

D805 IT40

Q804 D805 R605 47k

R606 220k

Q602

C602 47 6.3V

R810 47k

R607 220k

R603 47k

Q601

RV602 5k TAPE SPEED (LOW-SPEED)

RV601 5k

R602 13k

R601 4.7k

TAPE SPEED(HI-SPEED)

D601

D806

D806 IT40

Q804 2SC2458 MOTOR STOP DET

Q602 2SC2458 SWITCHING

Q601 2SC2458 MOTOR CONTROL

C808 0.01

S802 DECK B (ON:WHEN PL CONTROL

S301-6 REC/PB PB REC

S801-4 PB DECK A DECK B

【MD BOARD(A)(1/6)】

S805 DECK B ATS (ON:NOMAL TAPE)

Q401 2SC2458 EQ SWITCHING

IC305 LA3220 REC AMP

D401 IT40

Q314 2SC2458 AGC AMP

IC305(1/3)

IC305(2/3)

IC305(3/3)

C327 100 6.3V

C424 4.7 25V

R410 75k

R344 33

R342 680k

R343 1k

C329 0.47 50V

Q314

C331 0.47 50V

D305

D304

C332 47 6.3V

R345 1M

R340 39k

R411 39k

C330 0.0022

R341 330

C326 220 6.3V

IC305 LA3220 AGC AMP

C353 100p

D304,305 IT40

R402 10k

C415 10 16V

RV407 20k RECORD LEVEL 1

C416 820p

R409 10k

Q401

C423 4.7 25V

C420 0.022

C419 0.012

C328 47 6.3V

L401 2.7mH

R404 200

C418 47/6.3V

D401

R408 820

R339 3.9k

R403 680

R405 5.1k

R406 820

R407 240

C422 47p

C421 0.027

S308-1 REC MUTE

R-CH IS THE SAME AS L-CH. (REF. NO. 501—)

IC305(1/3)

Q307 2SA1048 EQ CONTROL

NORMAL: CrO2: 0V METAL: 6V

Q307

S806 DECK B ATS (OFF: METAL TAPE)

R316 10k

NORMAL: CrO2: 6V METAL: 5.5V

Q302—306,308 2SC2458 HI-SPEED EQ CONTROL

R308 4.7k

Q302

R313 4.7k

R314 47k

R315 100k

R317 100k

R312 100k

Q308

Q304

R311 100k

Q303

Q305

R309 22k

R318 4.7k

Q306

R320 22k

S302 ONE SIDE HI-SPEED OFF ON

S304-3 BOTH SIDES HI-SPEED

Q315 2SD313HP VOL. REG.

【POWER BOARD(1/3)】

D307 S3WB40 RECT

S310-1 S310-2 VOLTAGE SELECTOR

110—120V 220—240V

F302 T4A

F303 T400mA

S311 POWER

Q315

C334 0.1

R341 240

C336 0.01

R349 1.8k

C341 470 6.3V

C335 1000 16V

D306

D311

OPERATION BATTERY

C337 4700 16V

R348 820

C338 0.01

C339 0.01

C340 0.01

T301 POWER TRANSFORMER

TOTAL CURRENT FM: 145mA MW: 140mA SW: 140mA

DECK A PB: 200mA REW: 225 mA FF: 245mA

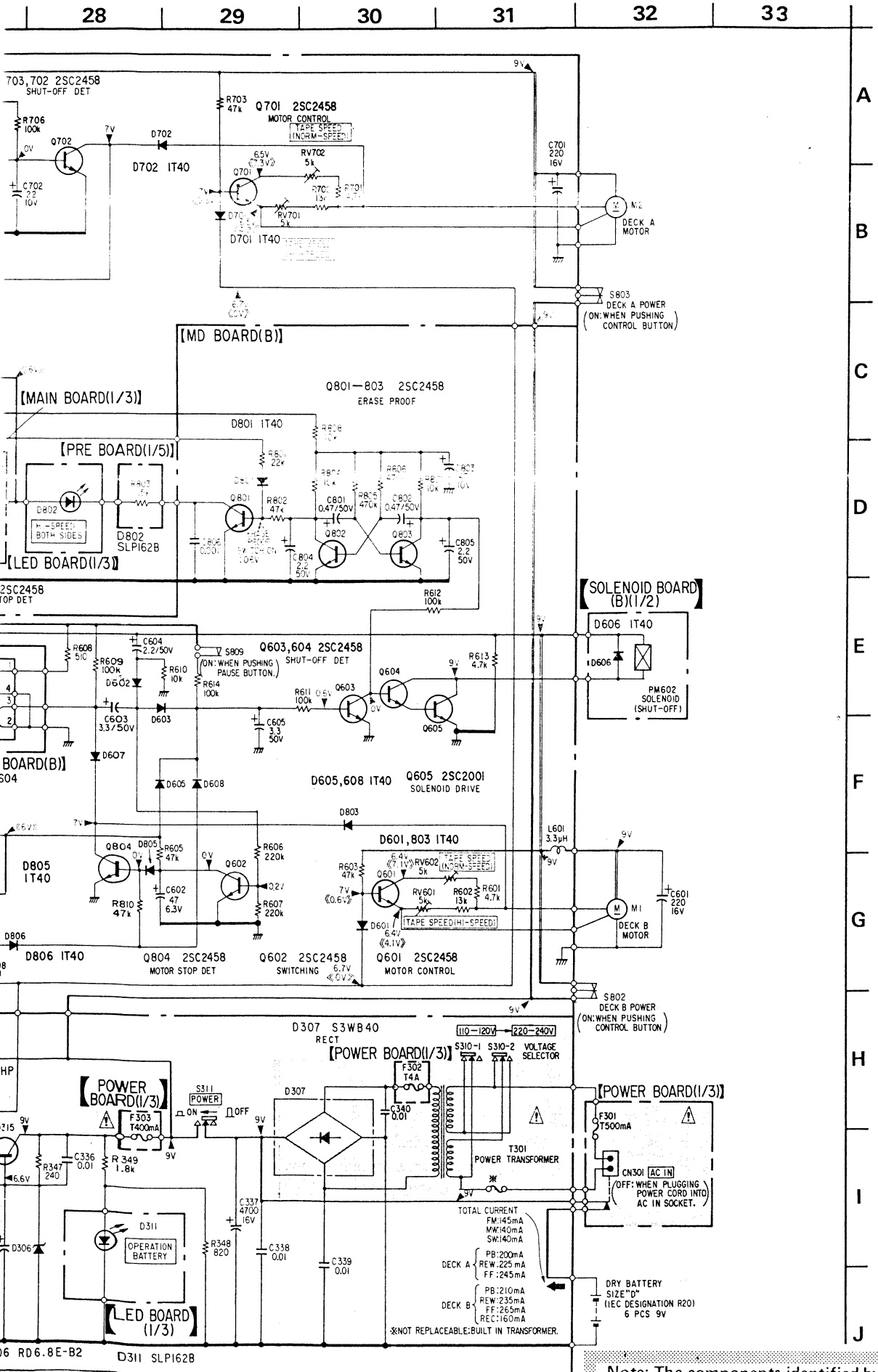
DECK B PB: 210mA REW: 235mA FF: 265mA REC: 160mA

*NOT REPLACEABLE: BUILT IN TRANSFORMER.

【LED BOARD (1/3)】

D306 RD6.8E-B2

D311 SLP162B



Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

SE
EXPLC

– For Schematic Diagram –

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⇨ : signal path.

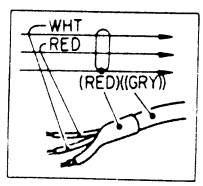
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Components for right channel have same values as for left channel.
- △ : internal component.
- FW : nonflammable resistor.
- ▬▬ : B+ bus.
- ▭ : adjustment for repair.
- AC voltage readings with a AUTO VOLTMETER.
- Total current is measured with no cassette installed.
- Power voltage is 9 V and fed with regulated DC power supply from battery terminal.
  Voltages are dc with respect to ground in detuned mode with VOM (DC 50kΩ/V). Voltage variations may be noted due to normal production tolerances.
  no mark: FM or playback mode
  ( ) : MW mode
  < > : SW mode
  [ ] : record mode
  (( )) : AMS mode
  << >> : both sides high-speed dubbing mode

– For Mounting Diagram –

Note:

- Color code of sleeving over the end of the jacket.



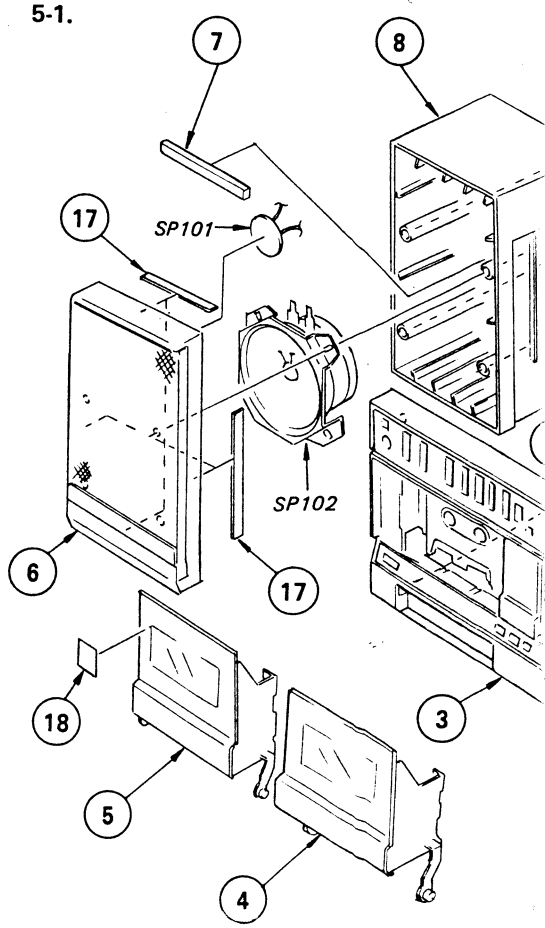
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊡ : indicates side identified with part number.
- ▬▬ : signal path
- ▬▬ : L-CH signal path
- ▬▬ : R-CH signal path
- : B + pattern

NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.

· Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· Th
pa
nu

5-1.



No.	Part No.	Description
1	3-324-015-01	BUTTON (REC MUTE)
2	3-324-029-01	SPRING
3	X-3324-011-1	CABINET (FRONT) ASSY
4	A-3247-138-A	HOLDER (RIGHT) ASSY, CASSE
5	A-3247-137-A	HOLDER (LEFT) ASSY, CASSET
6	X-3324-001-3	PANEL ASSY, SPEAKER
7	*3-324-060-01	REINFORCEMENT
8	X-3324-002-3	BOX (L) ASSY, SPEAKER
9	3-319-266-01	CLAW, SPK LOCK
10	3-320-232-01	SPRING
11	3-324-038-21	LID, BATTERY CASE
12	3-527-213-00	LABEL, SERIAL NUMBER

SECTION 5
EXPLODED VIEWS

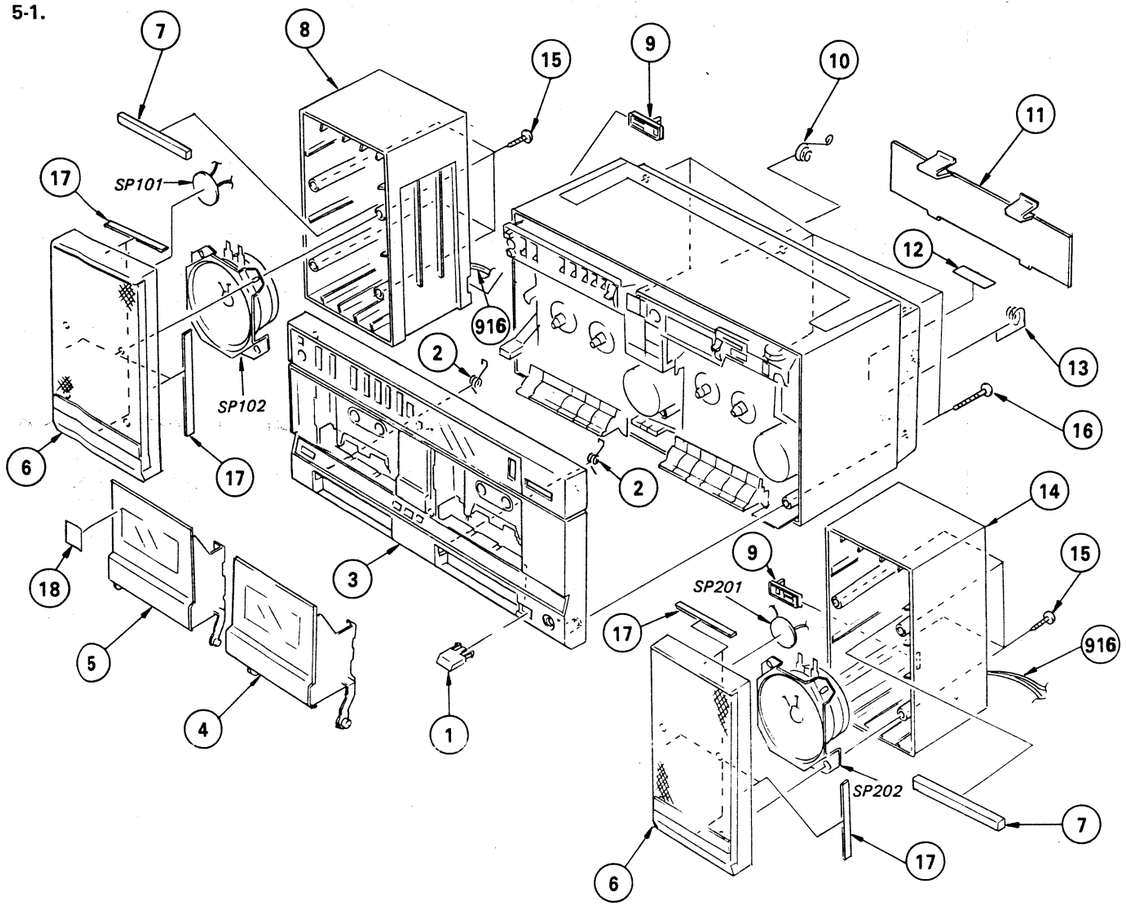
NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.

· Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

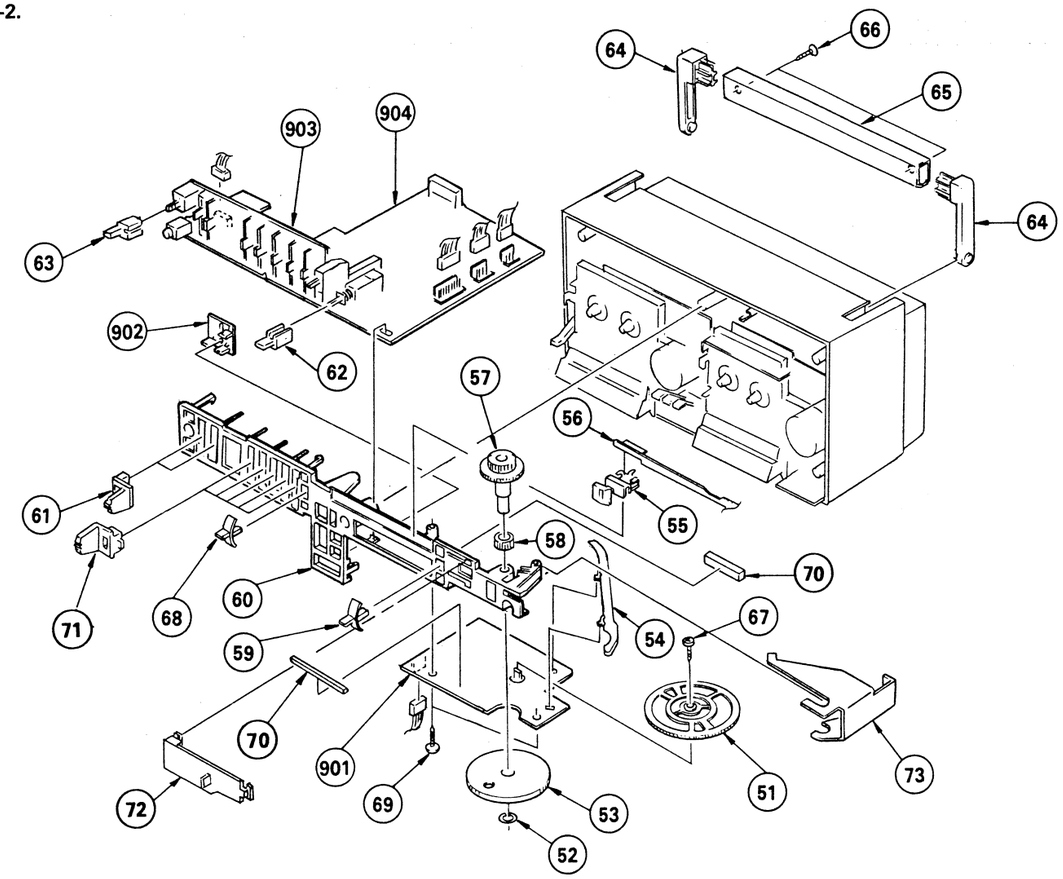
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-1.



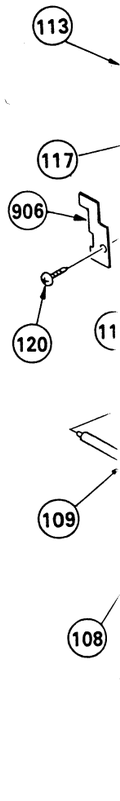
No.	Part No.	Description	REMARKS
1	3-324-015-01	BUTTON (REC MUTE)	
2	3-324-029-01	SPRING	
3	X-3324-011-1	CABINET (FRONT) ASSY	
4	A-3247-138-A	HOLDER (RIGHT) ASSY, CASSETTE	
5	A-3247-137-A	HOLDER (LEFT) ASSY, CASSETTE	
6	X-3324-001-3	PANEL ASSY, SPEAKER	
7	*3-324-060-01	REINFORCEMENT	
8	X-3324-002-3	BOX (L) ASSY, SPEAKER	
9	3-319-266-01	CLAW, SPK LOCK	
10	3-320-232-01	SPRING	
11	3-324-038-21	LID, BATTERY CASE	
12	3-527-213-00	LABEL, SERIAL NUMBER	
13	3-324-026-01	TERMINAL, MINUS	
14	X-3324-003-3	BOX (R) ASSY, SPEAKER	
15	7-685-648-11	SCREW +BVTP 3X12 TYPE 2 N-S	
16	7-685-155-21	SCREW +PTP 3X40 TYPE2 SLIT	
17	3-324-074-01	CUSHION	
18	3-703-707-01	STICKER, SONY SYMBOL (21)	
19	9-911-815-01	CUSHION (A)(t=3)	
916	1-557-463-11	CORD, CONNECTION, SPEAKER	
SP101	1-529-033-11	BUZZER, TWEETER	
SP102	1-503-425-11	SPEAKER, CONE (10CM), WOOFER	
SP201	1-529-033-11	BUZZER, TWEETER	
SP202	1-503-425-11	SPEAKER, CONE (10CM), WOOFER	

5-2.



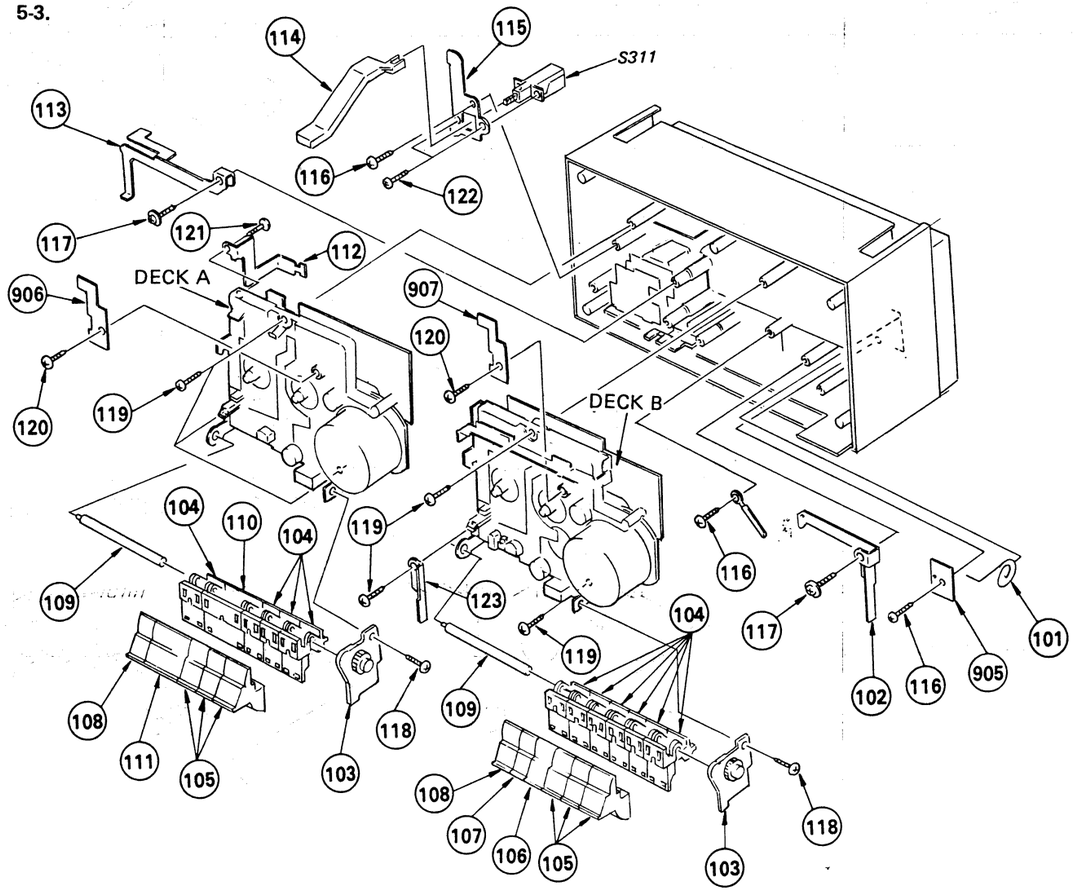
No.	Part No.	Description	REMARKS
51	3-323-828-01	DRUM, TUNING	
52	3-324-019-01	SPRING	
53	3-324-010-01	KNOB (TUNING)	
54	*3-324-058-01	GUIDE, RACK	
55	3-324-016-01	POINTER	
56	3-324-057-01	RACK, POINTER	
57	3-324-018-01	SHAFT, TUNING	
58	3-324-054-01	GEAR, DRIVING	
59	3-324-012-01	KNOB (BAND)	
60	3-324-050-01	CHASSIS	
61	3-324-017-01	KNOB, CONTROL (VOLUME,BALANCE)	
62	3-324-013-01	BUTTON (RADIO MONITOR)	
63	3-324-011-01	BUTTON (GRAPHIC EQ REC)	
64	3-320-228-31	PLATE, SIDE, HANDLE	
65	3-324-053-21	HANDLE	
66	7-685-247-14	SCREW +KTP 3X10 TYPE2 NON-SLIT	
67	3-888-156-00	SCREW (1.7X4)	
68	3-324-012-11	KNOB (FUNCTION)	
69	7-685-646-71	SCREW +BVTP 3X8 TYPE2 SLIT	
70	9-911-841-XX	CUSHION (t=5)	
71	3-324-017-11	KNOB, CONTROL (GRAPHIC EQUALIZER)	
72	3-324-080-01	KNOB, SWITCH (SW)	
73	*3-324-079-01	STOPPER, DIAL	
901	*A-3266-269-A	MOUNTED PCB, RADIO	
902	*1-614-421-11	PC BOARD, LED	
903	*1-614-419-11	PC BOARD, GRAPHIC EQUALIZER	
904	*1-614-420-11	PC BOARD, PRE	
	*A-3268-077-A	MOUNTED PCB, PRE	

5-3.

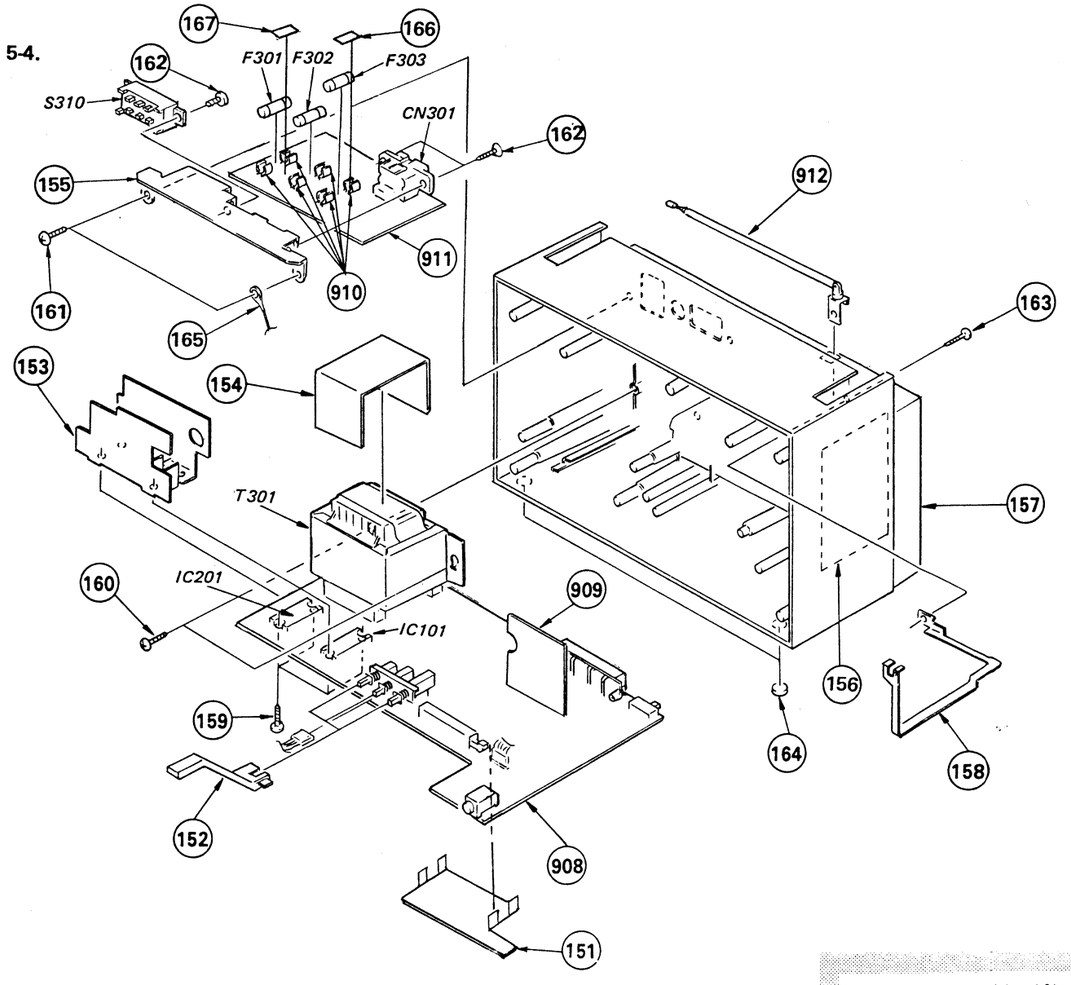


No.	Part
101	3-
102	*3-
103	X-
104	3-
105	3-
106	3-
107	3-
108	3-
109	3-
110	3-
111	3-
112	*3-
113	*X-
114	3-

5-3.



5-4.

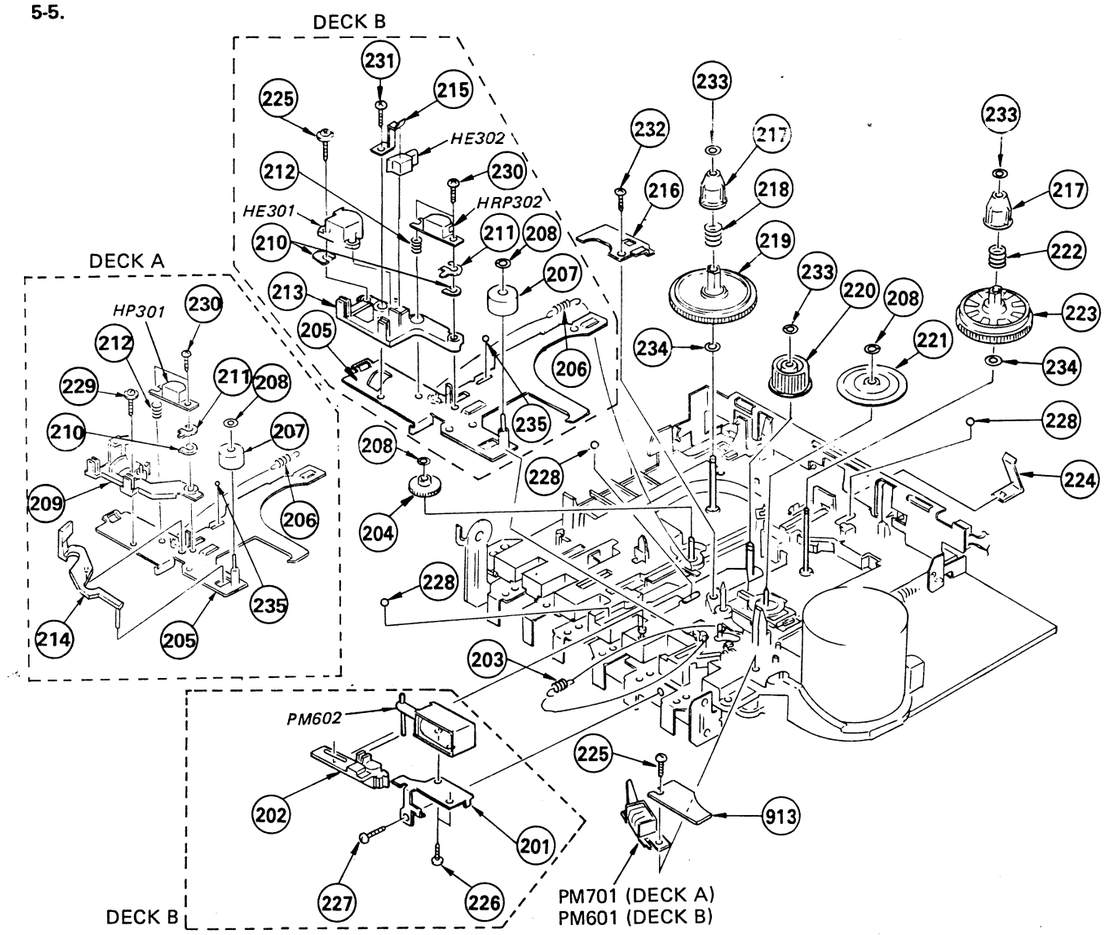


No.	Part No.	Description	REMARKS
101	3-324-025-01	TERMINAL, PLUS	
102	*3-324-021-01	LEVER, REC	
103	X-3324-006-1	EJECT ASSY, SOFT	
104	3-324-041-01	HOLDER (A), BUTTON	
105	3-324-044-01	BUTTON, FRP (REW,FF,PAUSE)	
106	3-324-047-01	BUTTON, PB (B)(PLAY)	
107	3-324-045-01	BUTTON (REC)	
108	3-324-048-01	BUTTON (STOP/EJECT)	
109	3-319-513-01	SHAFT, MD BUTTON	
110	3-324-042-01	HOLDER (B), BUTTON	
111	3-324-046-01	BUTTON, PB (A)(PLAY)	
112	*3-324-031-01	HOLDER, PC BOARD, MD	
113	*X-3324-005-1	LEVER ASSY, PLAYBACK	
114	3-324-036-01	BUTTON (POWER)	
115	*3-324-022-01	BRACKET, SWITCH, POWER	
116	7-685-647-71	SCREW +BVTP 3X10 TYPE2 SLIT	
117	3-701-833-01	HEAD, WASHER, TAPPING SCREW	
118	7-682-544-04	SCREW +B 3X3	
119	7-685-649-14	SCREW +BVTP 3X14 TYPE2 SLIT	
120	7-687-204-11	SCREW, TOTSU PTPWH 2X6, NON-SLIT, TYPE 2	
121	7-685-133-14	SCREW +PTP 2.6X6 TYPE2 N-S	
122	7-682-547-04	SCREW +B 3X6	
123	*3-324-070-01	SUPPORT	
905	*1-614-706-11	PC BOARD, BATTERY	
906	*1-614-416-11	(DECK A)...PC BOARD, SHUT OFF (A)	
907	*1-614-416-11	(DECK B)...PC BOARD, SHUT OFF (B)	
S311	1-553-318-00	SWICTH, 1 KEY PUSH (POWER)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

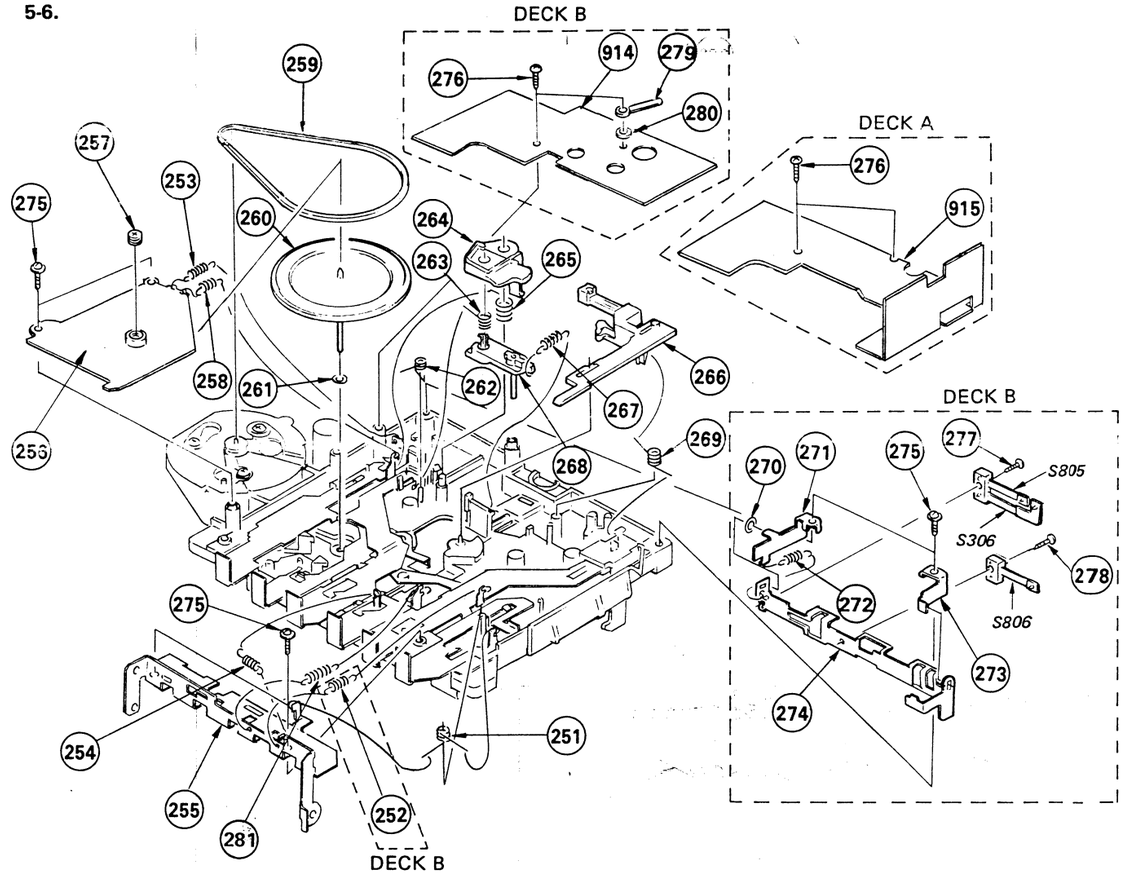
No.	Part No.	Description	REMARKS
151	*3-324-069-01	PLATE (S), SHIELD	
152	3-324-037-01	BUTTON (DUBBING MODE)	
153	*3-324-032-01	HEAT SINK	
154	*3-324-071-01	PLATE, SHIELD, TRANSFORMER	
155	*3-324-024-01	BRACKET, AC CONNECTOR	
156	*3-324-072-01	LABEL	
157	3-324-052-31	CABINET (REAR)	
158	*3-324-028-01	TERMINAL BOARD, ANTENNA	
159	7-685-648-71	SCREW +BVTP 3X12 TYPE2 SLIT	
160	3-701-833-01	HEAD, WASHER, TAPPING SCREW	
161	7-685-647-71	SCREW +BVTP 3X10 TYPE2 SLIT	
162	7-685-246-29	SCREW +KTP 3X8 TYPE2 SLIT	
163	7-682-551-04	SCREW +B 3X14	
164	3-319-288-01	FOOT	
165	3-703-150-11	CLAMP	
166	*3-701-948-10	LABEL, FUSE, T 400mA	
167	*3-701-948-11	LABEL, FUSE, T 500mA	
908	*A-3268-078-A	MOUNTED PCB, MAIN	
909	*1-614-434-11	PC BOARD, PB AMP	
909	*A-3268-076-A	MOUNTED PCB, PB AMP	
910	1-533-162-00	HOLDER, FUSE	
911	*1-614-423-11	PC BOARD, POWER	
912	1-501-306-11	ANTENNA, TELESCOPIC	
CN301 ⚠	1-526-822-11	INLET, AC (AC IN)	
F301 ⚠	1-532-279-00	FUSE, TIME-LAG 500mA	
F302 ⚠	1-532-350-00	FUSE, TIME-LAG 4A	
F303 ⚠	1-532-066-00	FUSE, TIME-LAG 400mA	
IC101	8-759-841-26	IC LA4126T	
IC201	8-759-841-26	IC LA4126T	
S310 ⚠	1-554-913-11	SWITCH, SLIDE (VOLTAGE CHANGE)	
T301 ⚠	1-448-151-11	TRANSFORMER, POWER	

5-5.



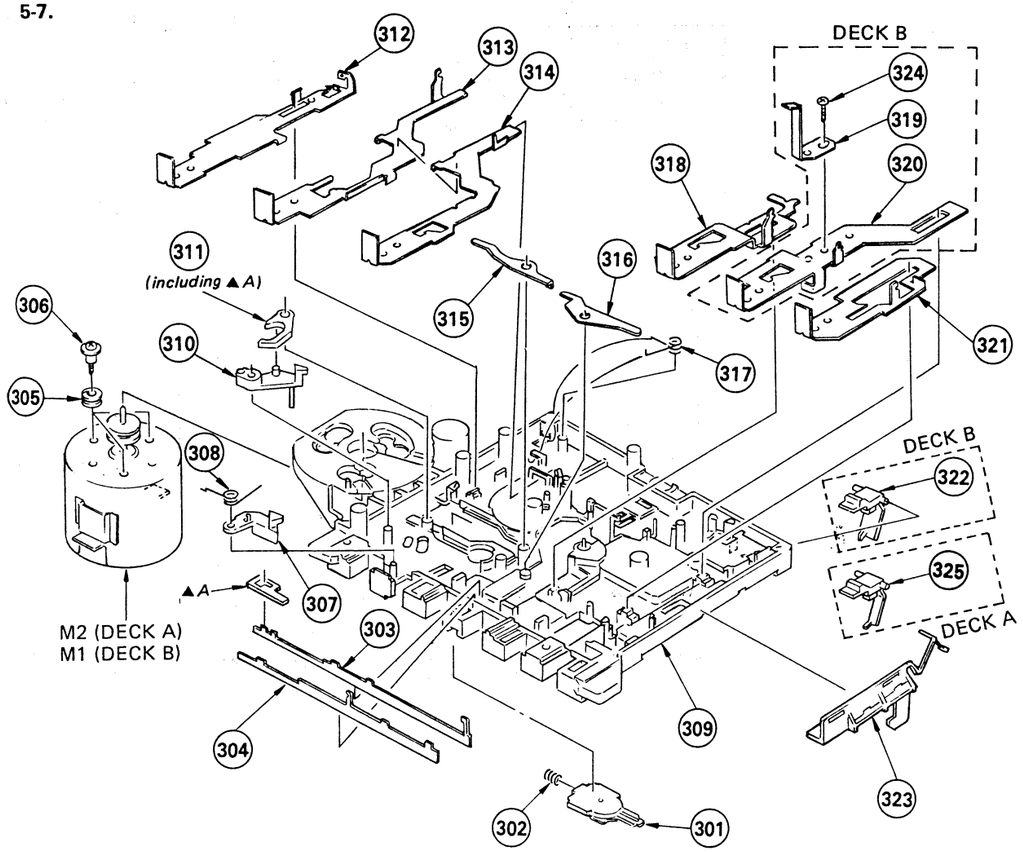
No.	Part No.	Description	REMARKS
201	*3-313-396-01	BRACKET, PL	
202	3-313-393-01	LEVER, PL	
203	3-313-384-01	SPRING, TENSION	
204	3-558-620-11	GEAR, REWIND	
205	X-3313-311-1	CHASSIS ASSY, HEAD	
206	3-313-342-00	SPRING, TENSION	
207	3-703-597-41	PINCH ROLLER, STANDARD	
208	3-307-948-01	WASHER, NYLON	
209	3-313-362-00	BRACKET, HEAD	
210	3-578-138-01	SHIM (t=0.1)	
	3-578-138-11	SHIM (t=0.2)	
	3-578-138-21	SHIM (t=0.3)	
211	3-313-386-11	LUG, SHIM (t=0.2)	
	3-313-386-21	LUG, SHIM (t=0.3)	
	3-313-386-31	LUG, SHIM (t=0.5)	
212	3-313-340-00	SPRING, COMPRESSION	
213	3-324-205-01	BRACKET (C), HEAD	
214	3-313-316-00	PU	
215	3-313-395-01	SPRING	
216	3-313-328-00	SPRING	
217	3-313-333-00	CLAW, REEL	
218	3-324-214-01	SPRING, COMPRESSION	
219	3-313-305-00	TABLE, REEL, SUPPLY	
220	X-3313-310-1	IDLER ASSY, FR	
221	X-3313-307-0	PULLEY ASSY, FWD	
222	3-324-213-01	SPRING, COMPRESSION	
223	A-3130-034-A	REEL (W) BLOCK ASSY, TAKE-UP	
224	3-313-902-00	SPRING	
225	7-685-105-14	SCREW +PTP 2X8 NON-SLIT	
226	7-621-255-15	SCREW +P 2X3	
227	7-685-790-04	SCREW +PTT 2.6X4 (S)	
228	7-671-112-11	BALL, STEEL	
229	7-621-955-35	SCREW, TOTSU PWH 2X5	
230	7-621-255-55	SCREW +P 2X8	
231	3-701-465-00	SCREW, LOCK	
232	7-685-133-14	SCREW +PTP 2.6X6 TYPE2 SLIT	
233	3-558-708-01	WASHER, STOPPER	
234	3-701-437-21	WASHER (t=0.5)	
235	7-671-111-01	STEEL BALL 1MM	
913	*1-614-436-11	(DECK B)...PC BOARD, SOLENOID (B)	
913	*1-614-436-11	(DECK A)...PC BOARD, SOLENOID (A)	
HE301	8-825-501-20	HEAD, ERASE (EF-223-36)	
HE302	8-825-559-11	HEAD, ERASE (EF250-36A)	
HP301	8-825-537-10	HEAD, REC/PB (PP238-3604F)	
HRP301	8-825-537-80	HEAD, REC/PB (PP238-3604G)	
PM601	1-454-355-00	SOLENOID, PLUNGER (AMS)	
PM602	1-454-390-11	SOLENOID, PLUNGER (SHUT-OFF)	
PM701	1-454-355-00	SOLENOID, PLUNGER (AMS)	

5-6.



No.	Part No.	Description	REMARKS
251	3-313-331-00	SPRING	
252	3-322-529-01	SPRING, TENSION	
253	3-313-349-00	SPRING, TENSION	
254	3-313-343-00	SPRING, TENSION	
255	*3-313-382-01	RETAINER, LEVER	
256	*3-313-319-00	RETAINER, FLYWHEEL	
257	3-570-205-00	SCREW, THRUST	
258	3-313-348-00	SPRING, TENSION	
259	3-313-389-01	BELT	
260	A-3109-027-A	FLYWHEEL ASSY (NS)	
261	3-313-387-11	WASHER, THRUST	
262	3-313-338-00	SPRING	
263	3-313-313-00	SPRING	
264	3-313-314-00	LEVER (SI), FR	
265	3-313-315-00	SPRING	
266	3-313-356-00	BRAKE	
267	3-313-365-00	SPRING, TENSION	
268	X-3313-304-0	ARM ASSY, REW	
269	3-313-327-00	SPRING	
270	3-701-439-21	WASHER (t=0.5)	
271	*3-313-398-01	ARM (B)	
272	3-322-673-01	SPRING, TENSION	
273	*3-313-397-01	ARM (A)	
274	*3-324-204-11	LEVER, DETECTION	
275	7-687-234-11	SCREW, TOTSU PTPWH 2.6X8, TYPE 2	
276	7-685-133-14	SCREW +PTP 2.6X6 TYPE2 N-S	
277	7-685-783-09	SCREW +PTT 2X6 (S)	
278	7-627-553-58	SCREW, PRECISION +P 2X4.5	
279	3-703-150-11	CLAMP	
280	7-623-953-01	WASHER 2.6, FIBER	
281	3-313-369-00	SPRING, TENSION	
914	*1-615-649-11	PC BOARD, MD (B)	
915	*1-615-650-11	PC BOARD, MD (A)	
S306, S805	1-570-107-11	SWITCH, LEAF (ERASE PROOF, DACK B ATS)	
S806	1-554-815-11	SWITCH, LEAF (DECK B ATS)	

5-7.



No.	Part No.	Description	REMARKS
301	X-3313-301-0	BRACKET ASSY, T PULLEY	
302	3-573-464-00	SPRING, COMPRESSION	
303	*3-313-352-00	PLATE (B), LOCK	
304	*3-313-351-00	PLATE (A), LOCK	
305	3-570-118-00	CUSHION, MOTOR	
306	3-570-027-00	SCREW, MOTOR	
307	3-313-322-02	LEVER (A), S.OFF	
308	3-313-399-01	(DECK B)...SPRING	
308	3-313-323-00	(DECK A)...SPRING	
309	A-3102-059-A	(DECK A)... CHASSIS ASSY, MECHANICAL	
309	A-3102-063-A	(DECK B)... CHASSIS ASSY, MECHANICAL	
310	X-3313-306-0	LEVER (B) ASSY, SHUT-OFF	
311	*3-313-337-00	CHIP, JOINT, S.OFF	
312	*3-313-381-21	LEVER (B), PAUSE BUTTON	
313	*3-313-353-21	LEVER, FF BUTTON	
314	*3-313-354-21	LEVER, REW BUTTON	
315	*3-313-320-00	LEVER, RCP	
316	*3-313-321-00	LEVER, PREVENTION, RFR	
317	3-313-378-01	SPRING (A)	
318	*3-313-326-21	LEVER, FWD BUTTON	
319	*3-324-023-01	SPRING	
320	*3-313-350-21	LEVER, REC BUTTON	
321	*3-313-325-21	LEVER, STOP BUTTON	
322	3-313-357-00	CLAW, REC PREVENTION	
323	3-313-383-01	CLAW (B), EJECT	
324	7-685-133-14	SCREW +PTP 2.6X6 TYPE2 N-S	
325	3-324-212-01	LEVER, A.T.S	
M1	A-3133-221-A	(DECK B)...MOTOR ASSY	
M2	A-3133-221-A	(DECK A)...MOTOR ASSY	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*A-3266-269-A	MOUNTED PCB, RADIO
902	*1-614-421-11	PC BOARD, LED
903	*1-614-419-11	PC BOARD, GRAPHIC EQUALIZER
904	*1-614-420-11	PC BOARD, PRE
904	*A-3268-077-A	MOUNTED PCB, PRE
905	*1-614-706-11	PC BOARD, BATTERY
906	*1-614-416-11	(DECK A)...PC BOARD, SHUT OFF (A)
907	*1-614-416-11	(DECK B)...PC BOARD, SHUT OFF (B)
908	*A-3268-078-A	MOUNTED PCB, MAIN
909	*1-614-434-11	PC BOARD, PB AMP
909	*A-3268-076-A	MOUNTED PCB, PB AMP
910	1-533-162-00	HOLDER, FUSE
911	*1-614-423-11	PC BOARD, POWER
912	1-501-306-11	ANTENNA, TELESCOPIC
913	*1-614-436-11	(DECK B)...PC BOARD, SOLENOID (B)
913	*1-614-436-11	(DECK A)...PC BOARD, SOLENOID (A)
914	*1-615-649-11	PC BOARD, MD (B)
915	*1-615-650-11	PC BOARD, MD (A)
916	1-557-463-11	CORD, CONNECTION, SPEAKER
917	*1-564-348-00	PLUG (L TYPE) 5P
918	*1-564-781-11	PIN, CONNECTOR 3P
919	*1-564-788-11	PIN, CONNECTOR 10P

Ref.No.	Part No.	Description			
C2	1-162-294-31	CERAMIC	0.001MF	10%	50V
C3	1-162-195-31	CERAMIC	4.7PF	10%	50V
C4	1-162-203-31	CERAMIC	15PF	5%	50V
C5	1-162-294-31	CERAMIC	0.001MF	10%	50V
C6	1-162-205-31	CERAMIC	18PF	5%	50V
C7	1-162-203-31	CERAMIC	15PF	5%	50V
C8	1-162-195-31	CERAMIC	4.7PF	10%	50V
C9	1-162-306-31	CERAMIC	0.01MF	20%	16V
C19	1-101-004-00	CERAMIC	0.01MF		50V
C20	1-101-004-00	CERAMIC	0.01MF		50V
C21	1-101-004-00	CERAMIC	0.01MF		50V
C22	1-101-004-00	CERAMIC	0.01MF		50V
C23	1-161-059-00	CERAMIC	0.047MF	10%	50V
C24	1-123-356-00	ELECT	10MF	20%	50V
C25	1-123-356-00	ELECT	10MF	20%	50V
C26	1-123-356-00	ELECT	10MF	20%	50V
C27	1-101-004-00	CERAMIC	0.01MF		50V
C28	1-101-880-00	CERAMIC	47PF	5%	50V
C29	1-102-973-00	CERAMIC	100PF	5%	50V
C30	1-161-054-00	CERAMIC	0.018MF	10%	50V
C31	1-101-004-00	CERAMIC	0.01MF		50V
C32	1-123-306-00	ELECT	47MF	20%	10V
C33	1-101-004-00	CERAMIC	0.01MF		50V
C34	1-162-196-31	CERAMIC	5.6PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C35	1-162-306-31	CERAMIC	0.01MF	20%	16V
C36	1-123-380-00	ELECT	1MF	20%	100V
C37	1-123-379-00	ELECT	0.47MF	20%	100V
C38	1-123-382-00	ELECT	3.3MF	20%	100V
C39	1-123-380-00	ELECT	1MF	20%	100V
C40	1-123-382-00	ELECT	3.3MF	20%	100V
C41	1-161-938-00	CERAMIC	0.001MF	5%	50V
C42	1-123-306-00	ELECT	47MF	20%	10V
C43	1-123-380-00	ELECT	1MF	20%	100V
C44	1-161-056-00	CERAMIC	0.027MF	10%	50V
C45	1-161-056-00	CERAMIC	0.027MF	10%	50V
C46	1-123-369-00	ELECT	4.7MF	20%	63V
C47	1-123-369-00	ELECT	4.7MF	20%	63V
C48	1-101-004-00	CERAMIC	0.01MF		50V
C49	1-101-004-00	CERAMIC	0.01MF		50V
C56	1-123-380-00	ELECT	1MF	20%	100V
C57	1-162-209-31	CERAMIC	27PF	5%	50V
C58	1-101-004-00	CERAMIC	0.01MF		50V
C59	1-162-294-31	CERAMIC	0.001MF	10%	50V
C60	1-101-081-00	CERAMIC	130PF	5%	50V
C61	1-161-960-00	CERAMIC	100PF	2%	50V
C62	1-102-734-00	CERAMIC	100PF	5%	50V
C63	1-161-960-00	CERAMIC	100PF	2%	50V
C101	1-123-369-00	ELECT	4.7MF	20%	63V
C102	1-162-287-31	CERAMIC	270PF	10%	50V
C103	1-123-369-00	ELECT	4.7MF	20%	63V
C104	1-101-367-00	CERAMIC	160PF	5%	50V
C105	1-162-294-31	CERAMIC	0.001MF	10%	50V
C106	1-123-306-00	ELECT	47MF	20%	10V
C107	1-161-057-00	CERAMIC	0.033MF	10%	50V
C108	1-136-165-00	FILM	0.1MF	5%	50V
C109	1-161-058-00	CERAMIC	0.039MF	10%	50V
C110	1-123-369-00	ELECT	4.7MF	20%	63V
C111	1-123-369-00	ELECT	4.7MF	20%	63V
C112	1-123-369-00	ELECT	4.7MF	20%	63V
C113	1-101-367-00	CERAMIC	160PF	5%	50V
C114	1-123-369-00	ELECT	4.7MF	20%	63V
C115	1-162-282-31	CERAMIC	100PF	10%	50V
C116	1-123-356-00	ELECT	10MF	20%	50V
C117	1-161-057-00	CERAMIC	0.033MF	10%	50V
C118	1-161-058-00	CERAMIC	0.039MF	10%	50V
C119	1-136-165-00	FILM	0.1MF	5%	50V
C120	1-123-369-00	ELECT	4.7MF	20%	63V
C121	1-123-369-00	ELECT	4.7MF	20%	63V
C122	1-162-292-31	CERAMIC	680PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C123	1-123-369-00	ELECT	4.7MF	20%	63V
C124	1-161-052-00	CERAMIC	0.012MF	10%	50V
C127	1-123-369-00	ELECT	4.7MF	20%	63V
C128	1-101-367-00	CERAMIC	160PF	5%	50V
C129	1-101-367-00	CERAMIC	160PF	5%	50V
C130	1-162-286-31	CERAMIC	220PF	10%	50V
C131	1-101-367-00	CERAMIC	160PF	5%	50V
C132	1-123-379-00	ELECT	0.47MF	20%	100V
C133	1-162-199-31	CERAMIC	10PF	5%	50V
C134	1-123-356-00	ELECT	10MF	20%	50V
C135	1-123-379-00	ELECT	0.47MF	20%	100V
C136	1-124-445-00	ELECT	100MF	20%	16V
C137	1-162-294-31	CERAMIC	0.001MF	10%	50V
C138	1-124-443-00	ELECT	100MF	20%	10V
C139	1-124-443-00	ELECT	100MF	20%	10V
C140	1-124-443-00	ELECT	100MF	20%	10V
C141	1-124-443-00	ELECT	100MF	20%	10V
C142	1-136-165-00	FILM	0.1MF	5%	50V
C143	1-136-165-00	FILM	0.1MF	5%	50V
C144	1-124-445-00	ELECT	100MF	20%	16V
C145	1-124-473-11	ELECT	1000MF	20%	10V
C146	1-124-473-11	ELECT	1000MF	20%	10V
C147	1-161-044-00	CERAMIC	0.0027MF	10%	50V
C148	1-162-293-31	CERAMIC	820PF	10%	50V
C149	1-161-044-00	CERAMIC	0.0027MF	10%	50V
C150	1-162-199-31	CERAMIC	10PF	5%	50V
C301	1-124-471-00	ELECT	1000MF	20%	6.3V
C302	1-123-379-00	ELECT	0.47MF	20%	100V
C303	1-123-379-00	ELECT	0.47MF	20%	100V
C304	1-123-379-00	ELECT	0.47MF	20%	100V
C305	1-136-169-00	FILM	0.22MF	5%	50V
C306	1-123-306-00	ELECT	47MF	20%	10V
C307	1-123-382-00	ELECT	3.3MF	20%	100V
C308	1-123-306-00	ELECT	47MF	20%	10V
C310	1-124-444-00	ELECT	220MF	20%	10V
C311	1-124-444-00	ELECT	220MF	20%	10V
C312	1-123-306-00	ELECT	47MF	20%	10V
C313	1-107-185-00	MICA	470PF	5%	500V
C314	1-107-177-00	MICA	220PF	5%	500V
C315	1-106-373-00	MYLAR	0.018MF	5%	200V
C316	1-106-361-00	MYLAR	0.0056MF	5%	200V
C317	1-131-387-00	TANTALUM	47MF	10%	6.3V
C318	1-124-468-11	ELECT	100MF	20%	6.3V
C320	1-123-379-00	ELECT	0.47MF	20%	100V
C321	1-123-379-00	ELECT	0.47MF	20%	100V
C322	1-162-294-31	CERAMIC	0.001MF	10%	50V
C323	1-162-282-31	CERAMIC	100PF	10%	50V
C324	1-123-330-00	ELECT	22MF	20%	25V
C325	1-123-356-00	ELECT	10MF	20%	50V
C326	1-123-308-00	ELECT	220MF	20%	10V
C327	1-123-307-00	ELECT	100MF	20%	10V
C328	1-123-306-00	ELECT	47MF	20%	10V
C329	1-123-379-00	ELECT	0.47MF	20%	100V
C330	1-161-043-00	CERAMIC	0.0022MF	10%	50V
C331	1-123-379-00	ELECT	0.47MF	20%	100V
C332	1-123-306-00	ELECT	47MF	20%	10V
C333	1-123-369-00	ELECT	4.7MF	20%	63V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C334	1-136-165-00	FILM	0.1MF	5%	50V
C335	1-124-555-00	ELECT	1000MF	20%	16V
C336	1-101-004-00	CERAMIC	0.01MF		50V
C337	1-123-327-00	ELECT	4700MF	20%	16V
C338	1-101-004-00	CERAMIC	0.01MF		50V
C339	1-101-004-00	CERAMIC	0.01MF		50V
C340 ⚠	1-101-004-00	CERAMIC	0.01MF		50V
C341	1-124-470-11	ELECT	470MF	20%	6.3V
C342	1-124-471-00	ELECT	1000MF	20%	6.3V
C343	1-162-294-31	CERAMIC	0.001MF	10%	50V
C344	1-162-282-31	CERAMIC	100PF	10%	50V
C345	1-123-356-00	ELECT	10MF	20%	50V
C346	1-162-294-31	CERAMIC	0.001MF	10%	50V
C350	1-123-306-00	ELECT	47MF	20%	10V
C353	1-162-282-31	CERAMIC	100PF	10%	50V
C356	1-102-106-00	CERAMIC	100PF	10%	50V
C401	1-161-058-00	CERAMIC	0.039MF	10%	50V
C402	1-123-902-00	ELECT	0.068MF	20%	50V
C403	1-161-052-00	CERAMIC	0.012MF	10%	50V
C404	1-136-169-00	FILM	0.22MF	5%	50V
C405	1-161-046-00	CERAMIC	0.0039MF	10%	50V
C406	1-161-023-00	CERAMIC	0.068MF	10%	25V
C407	1-161-040-00	CERAMIC	0.0012MF	10%	50V
C408	1-161-055-00	CERAMIC	0.022MF	10%	50V
C409	1-102-113-00	CERAMIC	390PF	10%	50V
C410	1-162-305-31	CERAMIC	0.0068MF	20%	16V
C411	1-123-644-00	ELECT	22MF	20%	10V
C412	1-123-647-00	ELECT	47MF	20%	6.3V
C413	1-124-245-00	ELECT	4.7MF	20%	35V
C414	1-161-039-00	CERAMIC	0.001MF	10%	50V
C415	1-123-356-00	ELECT	10MF	20%	50V
C416	1-162-293-31	CERAMIC	820PF	10%	50V
C418	1-123-306-00	ELECT	47MF	20%	10V
C419	1-161-052-00	CERAMIC	0.012MF	10%	50V
C420	1-161-055-00	CERAMIC	0.022MF	10%	50V
C421	1-161-056-00	CERAMIC	0.027MF	10%	50V
C422	1-162-215-31	CERAMIC	47PF	5%	50V
C423	1-123-369-00	ELECT	4.7MF	20%	63V
C424	1-123-369-00	ELECT	4.7MF	20%	63V
C425	1-124-255-00	ELECT	1MF	20%	50V
C426	1-161-039-00	CERAMIC	0.001MF	10%	50V
C601	1-123-321-00	ELECT	220MF	20%	16V
C602	1-123-306-00	ELECT	47MF	20%	10V
C603	1-123-379-00	ELECT	0.47MF	20%	100V
C604	1-123-381-00	ELECT	2.2MF	20%	100V
C605	1-123-382-00	ELECT	3.3MF	20%	100V
C701	1-123-321-00	ELECT	220MF	20%	16V
C702	1-123-330-00	ELECT	22MF	20%	25V
C703	1-123-379-00	ELECT	0.47MF	20%	100V
C706	1-123-330-00	ELECT	22MF	20%	25V
C801	1-123-379-00	ELECT	0.47MF	20%	100V
C802	1-123-379-00	ELECT	0.47MF	20%	100V
C803	1-123-306-00	ELECT	47MF	20%	10V
C804	1-123-381-00	ELECT	2.2MF	20%	100V
C805	1-123-381-00	ELECT	2.2MF	20%	100V
C806	1-162-306-31	CERAMIC	0.01MF	20%	16V
C808	1-162-306-31	CERAMIC	0.01MF	20%	16V

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
CF1	1-527-958-91	FILTER, CERAMIC
CF2	1-527-865-00	FILTER, CERAMIC
CN301 ⚠	1-526-822-11	INLET, AC (AC IN)
CNP100*	1-564-271-00	PIN, CONNECTOR 5P
CNP101*	1-560-591-00	PIN, CONNECTOR 7P
CNP103*	1-560-460-00	PIN, CONNECTOR 4P
CNP401*	1-560-466-00	PIN, CONNECTOR 3P
CNP402*	1-560-467-00	PIN, CONNECTOR 4P
CNP403*	1-560-471-00	PIN, CONNECTOR 10P
CNP404*	1-560-467-00	PIN, CONNECTOR 4P
CNP601*	1-560-470-00	PIN, CONNECTOR 8P
CNP602*	1-560-468-00	PIN, CONNECTOR 5P
CNP701*	1-560-469-00	PIN, CONNECTOR 6P
CNP702*	1-560-591-00	PIN, CONNECTOR 7P
CNP703*	1-560-467-00	PIN, CONNECTOR 4P
CNP704*	1-560-467-00	PIN, CONNECTOR 4P
CNP705*	1-560-591-00	PIN, CONNECTOR 7P
CP301	1-464-424-11	OSCILLATION TRANS UNIT, BIAS
CT5	1-141-227-00	CAP, CERAMIC TRIMMER
CT1-4, CV1-5	1-151-430-00	CAP, TUNING, POLYETHYLENE
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D3	8-719-768-71	DIODE 1S2687S-1
D5	8-719-911-19	DIODE 1SS119
D101	8-719-911-19	DIODE 1SS119
D201	8-719-911-19	DIODE 1SS119
D302	8-719-911-19	DIODE 1SS119
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D305	8-719-911-19	DIODE 1SS119
D306	8-719-100-41	DIODE RD6.8E-B2
D307 ⚠	8-719-503-06	DIODE S3WB60Z
D308	8-719-915-45	DIODE SLP162B
D309	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D311	8-719-915-45	DIODE SLP162B
D401	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D601	8-719-911-19	DIODE 1SS119
D602	8-719-911-19	DIODE 1SS119
D603	8-719-911-19	DIODE 1SS119
D604	8-719-911-19	DIODE 1SS119
D605	8-719-911-19	DIODE 1SS119
D606	8-719-911-19	DIODE 1SS119
D607	8-719-911-19	DIODE 1SS119
D608	8-719-911-19	DIODE 1SS119
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D801	8-719-911-19	DIODE 1SS119
D802	8-719-915-45	DIODE SLP162B
D803	8-719-911-19	DIODE 1SS119
D805	8-719-911-19	DIODE 1SS119
D806	8-719-911-19	DIODE 1SS119
F301 ⚠	1-532-279-00	FUSE, TIME-LAG 500mA
F302 ⚠	1-532-350-00	FUSE, TIME-LAG 4A
F303 ⚠	1-532-066-00	FUSE, TIME-LAG 400mA
FL1	1-235-536-11	FILTER, BAND PASS
HE301	8-825-501-20	HEAD, ERASE (EF-223-36)
HE302	8-825-559-11	HEAD, ERASE (EF250-36A)
HP301	8-825-537-10	HEAD, REC/PB (PP238-3604F)
HRP302	8-825-537-80	HEAD, REC/PB (PP238-3604G)
IC1	8-759-204-03	IC TA7358AP
IC3	8-759-801-24	IC LA1260S
IC4	8-759-203-87	IC TA7343AP
IC101	8-759-841-26	IC LA4126T
IC201	8-759-841-26	IC LA4126T
IC301	8-759-800-66	IC LA3161
IC302	8-759-800-66	IC LA3161
IC303	8-759-800-71	IC LA2010
IC304	8-759-800-66	IC LA3161
IC305	8-759-800-92	IC LA3220
IC401	8-759-801-23	IC LA3600
IC501	8-759-801-23	IC LA3600
J301	1-507-500-31	JACK, PIN 2P (CD/LINE IN)
J302	1-507-678-00	JACK (MIXING MIC)
J303	1-507-948-11	JACK (PHONES)
L1	1-459-520-11	COIL (WITH CORE)
L2	1-459-418-00	COIL (WITH CORE)
L5	1-402-160-11	ANTENNA, FERRITE-ROD (MW)
L6	1-408-674-00	MICRO INDUCTOR 0.68UH
L7	1-402-091-11	COIL (ANT)
L8	1-402-090-11	COIL (ANT)
L9	1-402-089-11	COIL (ANT)
L10	1-402-088-11	COIL (ANT)
L11	1-402-087-11	COIL (ANT)
L12	1-406-097-11	COIL, OSC (SW1)
L13	1-406-098-11	COIL, OSC (SW2)
L14	1-406-099-11	COIL, OSC (SW3)
L15	1-406-100-11	COIL, OSC (SW4)
L16	1-406-101-11	COIL, OSC (SW5)
L17	1-408-674-00	MICRO INDUCTOR 0.68UH
L101	1-408-917-11	MICRO INDUCTOR 2.7MMH
L102	1-408-928-00	MICRO INDUCTOR 22MMH
L103	1-408-928-00	MICRO INDUCTOR 22MMH

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
L201	1-408-917-11	MICRO INDUCTOR 2.7MMH
L202	1-408-928-00	MICRO INDUCTOR 22MMH
L203	1-408-928-00	MICRO INDUCTOR 22MMH
L301	1-407-171-XX	MICRO INDUCTOR 150UH
L401	1-408-917-11	MICRO INDUCTOR 2.7MMH
L501	1-408-917-11	MICRO INDUCTOR 2.7MMH
L601	1-407-484-00	HORIZONTAL TYPE MICRO INDUCTOR
M1	A-3133-221-A	(DECK B)....MOTOR ASSY
M2	A-3133-221-A	(DECK A)...MOTOR ASSY
PH601	8-719-913-55	DIODE GP-2S04-B
PH701	8-719-913-55	DIODE GP-2S04-B
PM601	1-454-355-00	SOLENOID, PLUNGER (AMS)
PM602	1-454-390-11	SOLENOID, PLUNGER (SHUT-OFF)
PM701	1-454-355-00	SOLENOID, PLUNGER (AMS)
Q1	8-729-672-42	TRANSISTOR 2SC2724-C
Q2	8-729-606-33	TRANSISTOR 2SC2603-F
Q3	8-729-119-32	TRANSISTOR 2SK193-E
Q101	8-729-606-33	TRANSISTOR 2SC2603-F
Q102	8-729-606-33	TRANSISTOR 2SC2603-F
Q103	8-729-606-33	TRANSISTOR 2SC2603-F
Q104	8-729-606-33	TRANSISTOR 2SC2603-F
Q105	8-729-606-33	TRANSISTOR 2SC2603-F
Q201	8-729-606-33	TRANSISTOR 2SC2603-F
Q202	8-729-606-33	TRANSISTOR 2SC2603-F
Q203	8-729-606-33	TRANSISTOR 2SC2603-F
Q204	8-729-606-33	TRANSISTOR 2SC2603-F
Q205	8-729-606-33	TRANSISTOR 2SC2603-F
Q301	8-729-606-33	TRANSISTOR 2SC2603-F
Q302	8-729-606-33	TRANSISTOR 2SC2603-F
Q303	8-729-606-33	TRANSISTOR 2SC2603-F
Q304	8-729-606-33	TRANSISTOR 2SC2603-F
Q305	8-729-606-33	TRANSISTOR 2SC2603-F
Q306	8-729-606-33	TRANSISTOR 2SC2603-F
Q307	8-729-204-83	TRANSISTOR 2SA1048-GR
Q308	8-729-606-33	TRANSISTOR 2SC2603-F
Q310	8-729-100-13	TRANSISTOR 2SC2001
Q311	8-729-606-33	TRANSISTOR 2SC2603-F
Q312	8-729-606-33	TRANSISTOR 2SC2603-F
Q313	8-729-100-13	TRANSISTOR 2SC2001
Q314	8-729-606-33	TRANSISTOR 2SC2603-F
Q315	8-729-831-33	TRANSISTOR 2SD313HP
Q316	8-729-606-33	TRANSISTOR 2SC2603-F
Q317	8-729-204-83	TRANSISTOR 2SA1048-GR
Q318	8-729-606-33	TRANSISTOR 2SC2603-F
Q321	8-729-606-33	TRANSISTOR 2SC2603-F
Q322	8-729-204-83	TRANSISTOR 2SA1048-GR
Q401	8-729-606-33	TRANSISTOR 2SC2603-F
Q402	8-729-606-33	TRANSISTOR 2SC2603-F
Q501	8-729-606-33	TRANSISTOR 2SC2603-F
Q502	8-729-606-33	TRANSISTOR 2SC2603-F
Q601	8-729-606-33	TRANSISTOR 2SC2603-F
Q602	8-729-606-33	TRANSISTOR 2SC2603-F
Q603	8-729-606-33	TRANSISTOR 2SC2603-F

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q604	8-729-606-33	TRANSISTOR 2SC2603-F			
Q605	8-729-100-13	TRANSISTOR 2SC2001			
Q701	8-729-606-33	TRANSISTOR 2SC2603-F			
Q702	8-729-606-33	TRANSISTOR 2SC2603-F			
Q703	8-729-606-33	TRANSISTOR 2SC2603-F			
Q801	8-729-606-33	TRANSISTOR 2SC2603-F			
Q802	8-729-606-33	TRANSISTOR 2SC2603-F			
Q803	8-729-606-33	TRANSISTOR 2SC2603-F			
Q804	8-729-606-33	TRANSISTOR 2SC2603-F			
Q805	8-729-606-33	TRANSISTOR 2SC2603-F			
R1	1-247-807-00	CARBON	100	5%	1/6W
R2	1-247-807-00	CARBON	100	5%	1/6W
R3	1-247-879-00	CARBON	100K	5%	1/6W
R7	1-247-845-00	CARBON	3.9K	5%	1/6W
R9	1-247-877-00	CARBON	82K	5%	1/6W
R10	1-247-819-00	CARBON	330	5%	1/6W
R11	1-247-839-00	CARBON	2.2K	5%	1/6W
R12	1-247-851-00	CARBON	6.8K	5%	1/6W
R13	1-247-795-00	CARBON	33	5%	1/6W
R14	1-247-859-00	CARBON	15K	5%	1/6W
R15	1-247-835-00	CARBON	1.5K	5%	1/6W
R16	1-247-835-00	CARBON	1.5K	5%	1/6W
R17	1-247-855-00	CARBON	10K	5%	1/6W
R18	1-247-831-00	CARBON	1K	5%	1/6W
R19	1-247-855-00	CARBON	10K	5%	1/6W
R20	1-247-825-00	CARBON	560	5%	1/6W
R21	⚠ 1-247-091-00	CARBON	22	5%	1/4W F
R22	1-247-879-00	CARBON	100K	5%	1/6W
R23	1-247-831-00	CARBON	1K	5%	1/6W
R24	1-247-855-00	CARBON	10K	5%	1/6W
R25	1-247-885-00	CARBON	180K	5%	1/6W
R26	1-247-833-00	CARBON	1.2K	5%	1/6W
R27	1-247-843-00	CARBON	3.3K	5%	1/6W
R28	1-247-843-00	CARBON	3.3K	5%	1/6W
R29	1-247-835-00	CARBON	1.5K	5%	1/6W
R30	1-247-835-00	CARBON	1.5K	5%	1/6W
R31	1-247-837-00	CARBON	1.8K	5%	1/6W
R32	1-247-837-00	CARBON	1.8K	5%	1/6W
R33	1-247-837-00	CARBON	1.8K	5%	1/6W
R34	1-247-791-00	CARBON	22	5%	1/6W
R35	1-247-845-00	CARBON	3.9K	5%	1/6W
R36	1-247-827-00	CARBON	680	5%	1/6W
R37	1-247-819-00	CARBON	330	5%	1/6W
R38	1-247-803-00	CARBON	68	5%	1/6W
R101	1-247-855-00	CARBON	10K	5%	1/6W
R102	1-247-813-00	CARBON	180	5%	1/6W
R103	1-247-879-00	CARBON	100K	5%	1/6W
R104	1-247-831-00	CARBON	1K	5%	1/6W
R105	1-247-804-00	CARBON	75	5%	1/6W
R106	1-247-855-00	CARBON	10K	5%	1/6W
R107	1-247-855-00	CARBON	10K	5%	1/6W
R108	1-247-873-00	CARBON	56K	5%	1/6W
R109	1-247-841-00	CARBON	2.7K	5%	1/6W
R110	1-247-813-00	CARBON	180	5%	1/6W
R111	1-247-879-00	CARBON	100K	5%	1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R112	1-247-804-00	CARBON	75	5%	1/6W
R113	1-247-831-00	CARBON	1K	5%	1/6W
R114	1-247-855-00	CARBON	10K	5%	1/6W
R115	1-247-841-00	CARBON	2.7K	5%	1/6W
R116	1-247-879-00	CARBON	100K	5%	1/6W
R119	1-247-814-00	CARBON	200	5%	1/6W
R120	1-247-845-00	CARBON	3.9K	5%	1/6W
R121	1-247-848-00	CARBON	5.1K	5%	1/6W
R122	1-247-833-00	CARBON	1.2K	5%	1/6W
R123	1-247-855-00	CARBON	10K	5%	1/6W
R124	1-247-831-00	CARBON	1K	5%	1/6W
R125	1-247-823-00	CARBON	470	5%	1/6W
R126	1-247-787-00	CARBON	15	5%	1/6W
R128	1-247-811-00	CARBON	150	5%	1/6W
R129	1-247-893-00	CARBON	390K	5%	1/6W
R131	1-247-843-00	CARBON	3.3K	5%	1/6W
R132	1-247-851-00	CARBON	6.8K	5%	1/6W
R133	1-247-851-00	CARBON	6.8K	5%	1/6W
R135	1-247-887-00	CARBON	220K	5%	1/6W
R136	1-247-887-00	CARBON	220K	5%	1/6W
R137	1-247-879-00	CARBON	100K	5%	1/6W
R301	1-246-448-00	CARBON	91	5%	1/4W
R302	1-247-895-00	CARBON	470K	5%	1/6W
R303	1-247-833-00	CARBON	1.2K	5%	1/6W
R304	1-247-888-00	CARBON	240K	5%	1/6W
R305	1-247-879-00	CARBON	100K	5%	1/6W
R306	1-247-841-00	CARBON	2.7K	5%	1/6W
R307	1-247-107-00	CARBON	100	5%	1/4W
R308	1-247-847-00	CARBON	4.7K	5%	1/6W
R309	1-247-863-00	CARBON	22K	5%	1/6W
R310	1-247-871-00	CARBON	47K	5%	1/6W
R311	1-247-879-00	CARBON	100K	5%	1/6W
R312	1-247-879-00	CARBON	100K	5%	1/6W
R313	1-247-847-00	CARBON	4.7K	5%	1/6W
R314	1-247-871-00	CARBON	47K	5%	1/6W
R315	1-247-879-00	CARBON	100K	5%	1/6W
R316	1-247-855-00	CARBON	10K	5%	1/6W
R317	1-247-879-00	CARBON	100K	5%	1/6W
R318	1-247-847-00	CARBON	4.7K	5%	1/6W
R319	1-247-863-00	CARBON	22K	5%	1/6W
R320	1-247-863-00	CARBON	22K	5%	1/6W
R321	1-247-806-00	CARBON	91	5%	1/6W
R322	1-247-095-00	CARBON	33	5%	1/4W
R323	1-247-845-00	CARBON	3.9K	5%	1/6W
R324	1-247-871-00	CARBON	47K	5%	1/6W
R325	1-247-091-00	CARBON	22	5%	1/4W
R326	1-247-835-00	CARBON	1.5K	5%	1/6W
R327	1-247-871-00	CARBON	47K	5%	1/6W
R328	1-247-871-00	CARBON	47K	5%	1/6W
R329	1-247-841-00	CARBON	2.7K	5%	1/6W
R330	1-247-841-00	CARBON	2.7K	5%	1/6W
R333	1-247-807-00	CARBON	100	5%	1/6W
R334	1-247-899-00	CARBON	680K	5%	1/6W
R335	1-247-843-00	CARBON	3.3K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R336	1-247-879-00	CARBON	100K	5%	1/6W
R337	1-247-819-00	CARBON	330	5%	1/6W
R338	1-247-696-11	CARBON	47	5%	1/4W
R339	1-247-845-00	CARBON	3.9K	5%	1/6W
R340	1-247-869-00	CARBON	39K	5%	1/6W
R341	1-247-819-00	CARBON	330	5%	1/6W
R342	1-247-899-00	CARBON	680K	5%	1/6W
R343	1-247-831-00	CARBON	1K	5%	1/6W
R344	1-247-095-00	CARBON	33	5%	1/4W
R345	1-247-903-00	CARBON	1M	5%	1/6W
R346	1-247-863-00	CARBON	22K	5%	1/6W
R347	1-247-116-00	CARBON	240	5%	1/4W
R348	1-247-829-00	CARBON	820	5%	1/6W
R349	1-247-837-00	CARBON	1.8K	5%	1/6W
R352	1-247-887-00	CARBON	220K	5%	1/6W
R355	1-247-871-00	CARBON	47K	5%	1/6W
R358	1-247-831-00	CARBON	1K	5%	1/6W
R359	1-247-843-00	CARBON	3.3K	5%	1/6W
R360	1-247-819-00	CARBON	330	5%	1/6W
R361	1-247-841-00	CARBON	2.7K	5%	1/6W
R362	1-247-845-00	CARBON	3.9K	5%	1/6W
R363	1-247-799-00	CARBON	47	5%	1/6W
R364	1-247-871-00	CARBON	47K	5%	1/6W
R365	1-247-839-00	CARBON	2.2K	5%	1/6W
R366	1-247-831-00	CARBON	1K	5%	1/6W
R401	1-247-847-00	CARBON	4.7K	5%	1/6W
R402	1-247-855-00	CARBON	10K	5%	1/6W
R403	1-247-827-00	CARBON	680	5%	1/6W
R404	1-247-814-00	CARBON	200	5%	1/6W
R405	1-247-872-00	CARBON	51K	5%	1/6W
R406	1-247-829-00	CARBON	820	5%	1/6W
R407	1-247-816-00	CARBON	240	5%	1/6W
R408	1-247-829-00	CARBON	820	5%	1/6W
R409	1-247-855-00	CARBON	10K	5%	1/6W
R410	1-247-876-00	CARBON	75K	5%	1/6W
R411	1-247-845-00	CARBON	3.9K	5%	1/6W
R412	1-247-831-00	CARBON	1K	5%	1/6W
R413	1-247-839-00	CARBON	2.2K	5%	1/6W
R601	1-247-847-00	CARBON	4.7K	5%	1/6W
R602	1-247-859-00	CARBON	13K	5%	1/6W
R603	1-247-871-00	CARBON	47K	5%	1/6W
R605	1-247-871-00	CARBON	47K	5%	1/6W
R606	1-247-887-00	CARBON	220K	5%	1/6W
R607	1-247-887-00	CARBON	220K	5%	1/6W
R608	1-247-824-00	CARBON	510	5%	1/6W
R609	1-247-879-00	CARBON	100K	5%	1/6W
R610	1-247-855-00	CARBON	10K	5%	1/6W
R611	1-247-879-00	CARBON	100K	5%	1/6W
R612	1-247-879-00	CARBON	100K	5%	1/6W
R613	1-247-847-00	CARBON	4.7K	5%	1/6W
R614	1-247-879-00	CARBON	100K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R701	1-247-847-00	CARBON	4.7K	5%	1/6W
R702	1-247-858-00	CARBON	13K	5%	1/6W
R703	1-247-871-00	CARBON	47K	5%	1/6W
R704	1-247-887-00	CARBON	220K	5%	1/6W
R705	1-247-879-00	CARBON	100K	5%	1/6W
R706	1-247-879-00	CARBON	100K	5%	1/6W
R707	1-247-824-00	CARBON	51C	5%	1/6W
R708	1-247-879-00	CARBON	100K	5%	1/6W
R709	1-247-847-00	CARBON	4.7K	5%	1/6W
R710	1-247-879-00	CARBON	100K	5%	1/6W
R719	1-247-871-00	CARBON	47K	5%	1/6W
R801	1-247-863-00	CARBON	22K	5%	1/6W
R802	1-247-871-00	CARBON	47K	5%	1/6W
R803	1-247-835-00	CARBON	1.5K	5%	1/6W
R804	1-247-855-00	CARBON	10K	5%	1/6W
R805	1-247-895-00	CARBON	470K	5%	1/6W
R806	1-247-895-00	CARBON	470K	5%	1/6W
R807	1-247-855-00	CARBON	10K	5%	1/6W
R808	1-247-855-00	CARBON	10K	5%	1/6W
R809	1-247-871-00	CARBON	47K	5%	1/6W
R810	1-247-871-00	CARBON	47K	5%	1/6W
R811	1-247-845-00	CARBON	3.9K	5%	1/6W
RV1	1-230-599-11	RES, ADJ, CARBON 5K			
RV101	1-230-600-11	RES, ADJ, CARBON 20K			
RV102	1-230-582-11	RES, ADJ, CARBON 100K			
RV103	1-230-582-11	RES, ADJ, CARBON 100K			
RV201	1-230-600-11	RES, ADJ, CARBON 20K			
RV202	1-230-582-11	RES, ADJ, CARBON 100K			
RV203	1-230-582-11	RES, ADJ, CARBON 100K			
RV301	1-230-671-11	RES, VAR, SLIDE 100K (BALANCE)			
RV302	1-230-673-11	RES, VAR, SLIDE 20K/20K (VOLUME)			
RV303	1-230-672-11	RES, VAR, SLIDE 100K/100K (100Hz)			
RV304	1-230-672-11	RES, VAR, SLIDE 100K/100K (400Hz)			
RV305	1-230-672-11	RES, VAR, SLIDE 100K/100K (1kHz)			
RV306	1-230-672-11	RES, VAR, SLIDE 100K/100K (4kHz)			
RV307	1-230-672-11	RES, VAR, SLIDE 100K/100K (12kHz)			
RV407	1-226-432-00	RES, ADJ, CARBON 20K			
RV507	1-226-432-00	RES, ADJ, CARBON 20K			
RV601	1-230-610-11	RES, ADJ, CARBON 5K			
RV602	1-230-610-11	RES, ADJ, CARBON 5K			
RV701	1-230-599-11	RES, ADJ, CARBON 5K			
RV702	1-230-599-11	RES, ADJ, CARBON 5K			
S1	1-570-236-11	SWITCH, LEVER SLIDE (BAND)			
S2	1-553-961-00	SWITCH, SLIDE (SW)			
S301	1-552-405-00	SWITCH, SLIDE (REC/PB SELECT)			
S302, S304	1-570-099-11	SWITCH, PUSH (3 KEY)(DUBBING MODE)			
S303	1-570-109-11	SWITCH, LEVER SLIDE (FUNCTION)			
S305	1-554-061-00	SWITCH, SLIDE (ISS)			
S306, S805	1-570-107-11	SWITCH, LEAF (ERASE PROOF, DACK B ATS)			
S307	1-570-098-11	SWITCH, PUSH (1 KEY)(GRAPHIC EQ REC)			
S308	1-554-491-00	SWITCH, PUSH (1 KEY)(REC MUTE)			
S309	1-554-889-11	SWITCH, PUSH (1 KEY)(RADIO MONITOR)			
S310	⚠1-554-913-11	SWITCH, SLIDE (VOLTAGE CHANGE)			
S311	1-553-318-00	SWITCH, PUSH (1 KEY)(POWER)			
S801	1-570-067-11	SWITCH, SLIDE (PB)			

ELECTRICAL PARTS

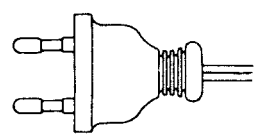
Ref.No.	Part No.	Description
S802	1-554-495-00	SWITCH, LEAF (DECK B POWER)
S803	1-554-495-00	SWITCH, LEAF (DECK A POWER)
S804	1-570-065-11	SWITCH, LEAF (DECK A ATS)
S806	1-554-815-11	SWITCH, LEAF (DECK B ATS)
S807	1-554-496-21	SWITCH, LEAF (DECK B FF/REW)
S808	1-554-496-21	SWITCH, LEAF (DECK A FF/REW)
S809	1-554-618-00	SWITCH, LEAF (DECK B PAUSE)
SP101	1-529-033-11	BUZZER, TWEETER
SP102	1-503-425-11	SPEAKER, CONE (10CM), WOOFER
SP201	1-529-033-11	BUZZER, TWEETER
SP202	1-503-425-11	SPEAKER, CONE (10CM), WOOFER
T1	1-403-872-00	I.F.T, FM
T3	1-406-040-00	COIL, MW OSC
T4	1-404-249-00	COIL, FM DETECTOR
T5	1-404-455-00	TRANSFORMER, IF
T301	⚠1-448-151-11	TRANSFORMER, POWER
TB301	1-536-834-11	TERMINAL BOARD (SPEAKER)

ACCESSORY & PACKING MATERIAL

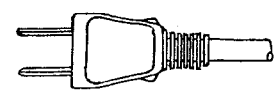
Part No.	Description
⚠1-526-565-00	(E2/3)...AC PLUG ADAPTOR
⚠1-551-235-00	(E2/3)...CORD, POWER (DK-51) 2P, PARALLEL BLADE PLUG
⚠1-551-521-00	(E1/2)...CORD, POWER (DK-52) 2P, EURO PLUG
3-760-246-11	MANUAL, INSTRUCTION
3-324-061-01	SPACER
3-324-062-01	CUSHION (UPPER)
3-324-063-01	CUSHION (INNER)
3-324-064-01	CUSHION (LOWER)
3-324-066-01	SHEET, PROTECTION
3-324-081-01	INDIVIDUAL CARTON
3-795-308-51	(E2/3)... INSTRUCTION

— Power Cord —

E1/2 model
euro-plug



E2/3 model
parallel-blade plug



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.